

GOLDACRES
Australia's World Class Sprayers



1500-5000L Prairie Special Sprayer Range

Australia's own

Since 1978 Goldacres has been regarded as Australia's most innovative sprayer manufacturer

From its inception nearly four decades ago, Goldacres has prospered by constantly reinventing its products and business practices in this fast changing landscape that's modern farming. Our philosophy is simple:

"To put farmers in the driver's seat of best fit technology to make them outstanding in their field".

We are driven by four core values: Innovation, uncompromising quality, adaptability and lastly, being courageous. These four values have led Goldacres on a journey to where we are today, offering customer based spraying solutions that take them forward with complete confidence.

Our sprayers are proudly built right here in Australia by a team of dedicated staff, turning ideas into reality and delivering sprayers which are truly

"Australia's world class sprayers"



GOLDACRES



Prairie Special range

The Prairie Special range of sprayers represents the latest in technology and features in a package that is simple to operate, yet strong and durable. Spanning six main tank capacities across two different chassis frame sizes, there is a sprayer to suit almost every requirement.





Small frame 1500 / 2000 / 2500 & 3000L



Large frame 4000 & 5000L



Small Frame Prairie Special - the logical

The small frame Prairie Special is a fully featured sprayer efficiently packaged in a layout to suit pasture, horticultural and dryland cropping applications.

Based on design principles developed over 40 years of sprayer manufacturing, Goldacres delivers a proven performer, time and time again.

The small frame Prairie Special comes in four tank capacities, 1500L, 2000L, 2500L & 3000L with fully hydraulic Delta booms ranging from 12 to 24m* in

width. Large diameter single wheel options coupled with multiple boom configurations means it's the logical choice.



al choice



Small Frame Prairie Special - features



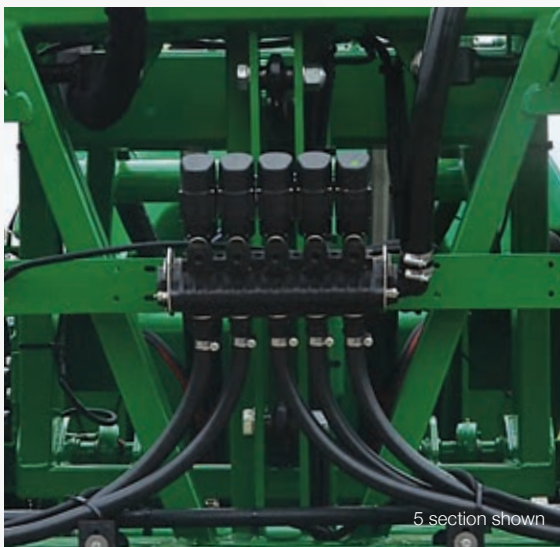
EZ Control Station

The EZ control station places all the filling and flushing functions in the one convenient location. All valves are colour coded and clearly labelled for easy identification and operation.



Axle and vertical boom suspension

Oversize 70 series, 8 stud axles with heavy duty dust seals provide years of trouble free service. Nitrogen charged hydraulic accumulators provide vertical boom suspension and dampening.



Boom Section Valves

High quality motorised boom section valves with 3/4" delivery lines provide quick nozzle start and stop capability. Standard in 3 sections with ability to upgrade to more sections as required.



Diaphragm Pumps

Smooth running 540 rpm oil backed diaphragm pumps are constant displacement providing consistent flow, largely unaffected by changes to operating pressure. Main tank agitation is consistent, even when large changes to operating pressures are made.



Prairie Special 3000L with 24m Delta boom shown

Small Frame Prairie Special - options



Induction hopper

Lower the hopper into the loading position by simply releasing the spring loaded catch, the Induction hopper enables you to load powders, granules and liquids fast, using a large flow venturi system.

The lower valve has a large handle that's easy to grip while wearing PPE and features push down drum rinse nozzle, tank flushing nozzle and simple tank level calibration.



Full length poly mudguards

Covering 180 degrees of the wheel and manufactured from UV stable polyethylene plastic, these mudguards provide the best protection for your sprayer. Also fitted with heavy rubber mudflaps which prevent mud build up on the boom.



Boom wing tilt

Individual side boom wing tilt enables the operator to quickly raise the boom wing tip up over obstacles such as fences or tree stumps.



Hydraulic drive

80cc geroler hydraulic motor option replaces the standard PTO shaft. Complete with rpm sensor for accurate in cab pump speed readout.



Prairie Special 2500L with 18m Delta boom shown



Small Frame Prairie Special - construction

To build the best sprayer you have to start with a solid platform

The small frame Prairie Special design incorporates many elements to ensure maximum strength, longevity and performance. Features such as, fully bushed pivot

points, precision laser cut components and the best corrosion proof paint system. Fully welded in rotating positional jigs ensures accuracy, repeatability and quality

all combined with the experience gained with thousands of sprayers in the field.

1 Chassis. Manufactured from high strength heavy walled 125x75x6mm RHS to minimise flexing and provide a stable platform for boom mounting. The rear chassis section features an integrated boom and tank support (3000L version only). Long wheel base (axle to drawbar) provides excellent boom yaw stability and reduces sideways pushing forces at the tractor.

2 Drawbar pull. Single 150mm square drawbar section allows tighter headland turning. Full 360 degree swivel forged tow eye ensures maximum articulation between sprayer and tractor.

3 Walk through platform. Access the main tank easily and safely from either side of the sprayer. No need to walk around the sprayer or tractor to access the other side. Open foot treads provide safe access to platform in muddy conditions. Lower portion of treads fold up out of the way when not in use.

4 Boom rest. The adjustable height boom rests with rubber supports provide a soft contact point for the boom wings, minimising the chance for damage.

5 Boom parallelogram lift. The mechanism provides boom height adjustment as well as the vertical suspension.

6 Delta boom centre section. Using lightweight trussing techniques the boom centre section is light yet extremely strong. All high load pivot points are greaseable, ensuring a long service life and optimum boom suspension performance.

7 Paint and anti-corrosion system. All major components are fully grit blasted using a fractured steel shot, essential for excellent paint adherence. The bare steel components are then treated using a high build filler primer which flattens the blasted surface. All un-welded joints are seam sealed then top coated

using Goldacres' exclusive chemical resistant paint formula. Finally all components are baked in a high temperature oven until fully cured.

All zinc plated pins and bolts on the boom are coated with rust preventative G15, which adds another level of corrosion protection.

8 Full modular construction technique allows many options to be easily added at the time of build or at a later date as required. Dealer Fit Options (DFO) can be retrofitted without the need for welding or drilling existing components.

Large Frame Prairie Special - value for

The large frame Prairie Special range expands on the philosophy of the small frame unit, delivering a fully featured sprayer, but for growers looking for larger capacities.

The large frame Prairie Special comes in two main tank capacities, 4000L and 5000L. It is available in two boom styles, Delta and TriTech, in widths ranging

from 18m to 36m. Large diameter single wheels, fixed or air bag suspension axles and optional track widths provide the grower with a configuration for

almost any situation. Combine all this with Goldacres manufacturing expertise means the large frame Prairie Special represents excellent value for money.



money



Prairie Special 5000L with 30m TriTech boom shown

Large Frame Prairie Special - features



400L rinse tank

Mounted neatly between the converging twin spar A-Frame the rinse water tank provides ample capacity for end of day clean out duties. The rinse tank can be filled from the EZ control station, and the volume can be clearly seen from the tractor seat.

Walk through platform

A hall mark of Goldacres sprayers has been the convenient walk through platform, complete with fold away open treads to give the operator sure footed safety.

Filtration

Located together the suction and twin pressure filters can be cleaned with a minimum of fuss.



Large single wheels

Fitted with large diameter 18.4x38 tyres reduces ground pressure and rolling resistance. Ten stud fully welded wheels with 16mm pressed centres provide long trouble free spraying.



3" sump drain

Decontaminating the tank is quick and easy with the 3" sump drain. The drain also features a cam lock fitting to connect a hose to assist in recovering the waste.



Prairie Special 5000L with 30m TriTech boom shown

Large Frame Prairie Special - options



Airbag suspension

The airbag suspension system uses a combination of rubber bushes, rolling lobe air springs, heavy duty dampeners and a ride height levelling valve to help provide the best possible ride for the chassis and boom. The axle is bolted in place allowing different track widths from 2000 to 3048mm (120"). Other wheel track widths are available on request.



SuperFlow 60L Induction hopper

Lower the hopper into the loading position by simply releasing the spring loaded catch, the SuperFlow hopper enables you to load powders, granules and liquids fast – up to 20 kg/min (Atrazine) using a large flow venturi system.

The SuperFlow uses a flanged 2" port tap with a large handle that's easy to grip while wearing PPE and features push down drum rinse nozzle, tank flushing nozzle and simple tank level calibration.



Clock face Trijets

Easily change spray nozzles with a flick of your wrist with the Trijet nozzle body system with positive shutoff between each position (TriTech booms only).



Remote grease station

To gain the best possible boom ride and longevity from the boom, all pivot points must be regularly greased. The remote grease nipple option places four, six bank points in easy to reach locations on the boom. This speeds up the greasing process and also reduces the chance of critical points being missed.



Full length Mudguards

Covering 180 degrees of the wheel and manufactured from UV stable polyethylene plastic these mudguards provide the best protection for your sprayer. Also fitted with heavy rubber mudflaps which prevent mud build up on the boom. Three point connection improves mudguard strength.



Zeta 260 I/min pump

Upgrade from the 170I/min pump to the 260I/min for high flow applications. The Zeta 260I/min pump is a smooth running six piston unit. Available in PTO or hydraulic drive.



7

8

6

5

4

1

9

3

10

Large Frame Prairie Special - construction

To build the best sprayer you have to start with a solid platform

The large frame Prairie Special design incorporates many elements from the transport and earthmoving industries to ensure maximum strength, longevity and

performance. Features like fully bushed pivot points, air ride suspension components and dampeners, to the best corrosion proof painting systems. Fully welded in

rotating positional jigs ensures accuracy, repeatability and quality all combined with the experience gained with thousands of sprayers in the field.

1 Chassis. Manufactured from high strength heavy walled 200x100x6mm RHS to minimise flexing and provide a stable platform for boom mounting. The rear chassis section is stepped in with integral boom and tank support allowing narrow wheel track options. Long wheel base (axle to drawbar) provides excellent boom yaw stability and reduces sideways pushing forces at the tractor.

2 Drawbar pull. Narrow drawbar final section allows tighter headland turning. Full 360° swivel forged tow eye ensures maximum articulation between sprayer and tractor.

3 Walk through platform. Access the main tank easily and safely from either side of the sprayer. No need to walk around the sprayer or tractor to access the other side. Open foot treads provide safe access to the platform in muddy conditions. Lower portion of treads folds up out of the way when not in use.

4 Air bag suspension*. Specifically designed for the Prairie Special the air bag suspension system provides a smooth soft ride for both trailer and boom whilst still limiting excessive body

roll. This is achieved through the use of the large diameter bi-functional rubber bush pivot system coupled with heavy walled torque tube construction. The bolt in axle also doubles as the air reservoir for the ride height levelling.

5 Roller boom rest. The adjustable height boom rests with rubber roller supports provide a soft contact point for the boom wings, minimising the chance for damage.

6 Boom parallelogram lift. The mechanism provides 1200mm of boom height adjustment as well as the vertical boom suspension. Three heavy walled torque tubes and diagonal bracing ensure less flexing which increases boom roll and yaw stability.

7 TriTech boom centre section. Using lightweight trussing techniques the boom centre section is light yet extremely strong. All high load pivot points are fully bushed and greaseable, ensuring a long service life and optimum boom suspension performance.

8 Hydraulic cylinders. All hydraulic cylinders use quality hardened greasable ball ends firmly bolted in position, ensuring minimal joint movement and maximum boom control.**

9 Paint and anti-corrosion system. All major components are fully grit blasted using a fractured steel shot, essential for excellent paint adherence. The bare steel components are then treated using a high build filler primer which flattens the blasted surface. All un-welded joints are seam sealed then top coated using a Goldacres specific chemical resistant paint formula. Finally all components are baked in a high temperature oven until fully cured.

All zinc plated pins and bolts on the boom are coated with rust preventative G15, which adds another level of corrosion protection.

10 Full modular construction technique allows many options to be easily added at the time of build or at a later date as required. Dealer fitted options (DFO) can be retro fitted without the need for welding or drilling existing components.

*Air bag suspension optional. **TriTech booms only

Call us control freaks!

In today's fast changing precision farming landscape it is easy to be left behind in the technology stakes

That's why Goldacres make it easy, with multiple solutions to suit the basic requirements to the top end needs.

For more than two decades Goldacres have relied on Raven to provide complete flow control systems with matched components to give, quite simply, unmatched flow control accuracy and stability.

At the heart of the control system is a positive displacement pump run at constant rpm. This creates known flow rates across varying pressures, essential for accurate and stable flow control. In addition, two system critical components, a flow meter and three way regulator valve* combine to help achieve fast "on target rate", plus greater flow stability with known tank agitation.

The Prairie Special range of sprayers feature three controller types to suit all requirements.

3 way electric section and regulation control system

For simple fuss free flow and section control the 1500-2500L small frame Prairie Special can be fitted with a three section switch box with electric pressure regulation. This allows the operator to adjust the spray pressure to achieve the desired nozzle flow rate. The operator then drives at a set ground speed to maintain the correct application rate.

SCS450 Auto rate control system

The proven SCS range of sprayer consoles provide simple, fuss free control of the flow control duties. The SCS450 features up to 5 boom section control, 2 pre-set auto rates plus manual, pump speed readout, ground speed and several counters. If you are looking to further expand the capabilities, then the SCS range is compatible with

all the leading automatic section controllers on the market.

ISO BUS Auto rate control system

Tractor cabins can get very busy with the vast range of systems requiring individual control consoles. The ISO BUS standard virtual terminal (VT) brings all the systems together into the one display. Essentially each system contains the brains, while the VT is simply the interface between the two. This means only one operator console is required.

Goldacres offer the option for ISO BUS compatibility, allowing numerous leading VT displays to take over the sprayer control duties. Features like flow control pressure, pump speed readout, plus all tractor steering and task control applications can all be all monitored by the one display.

Any of these controllers can be fitted to the Goldacres Trailing Sprayer plus many more

3 way electric section & regulation control



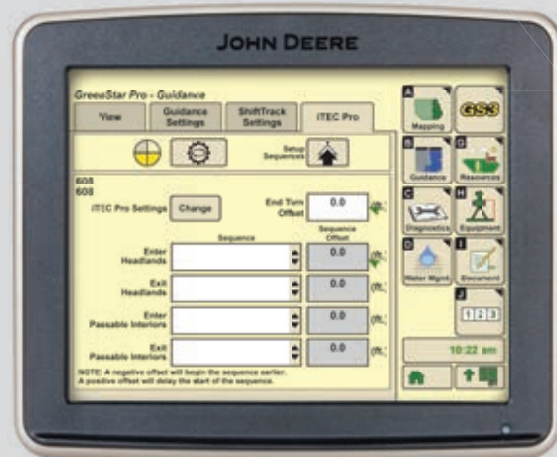
3 way electric section & regulation control (1500-2500L only)

SCS Series controllers



Raven SCS450™

ISO Bus VT displays



John Deere GreenStar™ 3 - ISO Bus



Trimble® FmX® 1000 - ISO Bus



TopCon X30 - ISO Bus



Ag Leader® - ISO Bus

A sprayer is only as good as its boom

Today's sprayers are full of bells and whistles which makes spraying a whole lot easier, comfortable and efficient

It's easy to forget what the end goal is. *Precise chemical application.* Boom control can be the difference between a good spray result, and no result at all. Goldacres understand this and it is why all our sprayer designs are centred around the boom first and foremost.

The unique Goldacres three way boom suspension systems isolate the movements from the tractor and sprayer, providing a superior boom ride. Resulting in precise chemical application.

Why do Goldacres booms ride so well?

Goldacres pioneered the use of lightweight aluminium in the outer boom wings over two decades ago. The philosophy was, and still is today that mass on a boom is fine so long as it is as close to the centre as possible. Reduced mass

on the boom extremities reduces boom forces in both yaw and roll. This combined with the unique boom suspension results in a very stable boom ride, regardless of the terrain.

Goldacres booms are offered in two formats, Delta and TriTech. Both feature the same three way suspension system incorporating pitch, roll and yaw control, but differ in construction techniques based on the overall boom widths.

Both Delta and TriTech booms are contour following, meaning that the boom level will be referenced to the sprayer chassis and not purely on gravity such as a pendulum boom. This allows the sprayer to traverse the sides of hills and contours whilst keeping the boom level to the ground at all times. This results in placing the nozzle at the optimum height above the target.



Contour following boom on the side of a hill shown



Delta Booms

Application made easy

The Delta boom range is ideal for growers looking to benefit from the proven stability and performance of the three way suspension system in an economical package. Designed for light to medium duty applications with widths ranging from 15m to 24m*, there is a size to suit every situation. Standard features include mild steel inner wings with lightweight aluminium outer wings, single operation boom folding system featuring the proven cable control with outer wing break back functionality, full size $\frac{3}{4}$ " boom lines to minimise pressure drop across the sections for consistent spray application and full hydraulic lift and fold.

*24m on 3000L and larger only





OVERSIZE

TriTech Booms

Strength, Stability, Reliability & Control

The TriTech boom range is designed for operators who demand the utmost performance, reliability and control. Time and time again the TriTech boom has been named No.1 for boom stability* which at the end of the day, results in a superior spray result.

Features such as hydraulic yaw which precisely controls the forwards and backwards movement of the boom wings to minimise the under and over applying of chemical are now standard on all widths.

The strategically placed centre section suspension links help isolate the sprayer chassis movement over rough terrain. Combined with the tuned damping characteristics this enables precise roll control and an optimal and consistent nozzle height to be maintained.

All TriTech booms are constructed using lightweight trussing techniques, which allows for a stronger design without the weight, the enemy of boom agility.



*Kondinin Group's Farming Ahead magazine 2012 and 2014

Boom essentials - standard



1 Hydraulic yaw

Two hydraulic cylinders are mechanically connected together either side of the pivoting boom centre section. As the centre yaws one cylinder is retracted, the other extended. This results in oil movement which compresses in a nitrogen charged accumulator. The result is precise boom yaw control.

2 Delta links

The key to the superior boom ride is the strategically placed delta links. In all there are four links. Each link features spherical ball ends which allow the

centre to move in all directions and provide contour following boom suspension.

3 Roll centre point

The roll centre point is the location at which the boom pivots around, both in roll and yaw.

4 Roll dampeners

Reduces high frequency oscillation of the boom roll.

3D Breakaway

The end breakaway section protects the boom from stress damage if a ground, fence or tree strike occurs. The end section can break forwards, backwards and upwards. The spring mechanism uses an eccentric mounted sprocket and chain to provide maximum breakout force in the neutral position, then reduces the force the further the breakout.

Chemical Handling

SuperFlow 40 & 60L Induction Hopper

Lower the hopper into the loading position by simply releasing the spring loaded catch, the SuperFlow hopper enables you to load powders, granules and liquids fast – up to 20 kg/min* (Atrazine) using a large flow venturi system.

The lower valve has a large handle that's easy to grip while wearing PPE and features push down drum rinse nozzle, tank flushing nozzle and simple tank level calibration.

Transcal (not shown)

The 45L Transcal is a simple and effective way of transferring and measuring liquid chemical.

Using a venturi the Transcal can draw chemical from an open container using a probe, or out of an envirodrum, to provide a totally enclosed transfer system.

The Transcal measures chemical transferred by volume, not flow, providing accuracy regardless of the liquid viscosity.

Venturi Probe

Standard on all models across the range, the probe is a simple method of transferring chemical into the main tank directly from a drum. It uses a venturi mounted in the main product tank.

Chemical transfer pump (4000 & 5000L only)

The 12 volt chemical transfer pump has an open flow of up to 40 l/min and can transfer chemical from any container using a probe or envirodrum coupling.

The chemical transfer pump features an optional integrated flow meter to keep track of how much chemical has been transferred, providing a completely stand-alone transfer system at the flick of a switch.

*60L hopper





GOLDACRES

Prairie Special
2518

Chemical

WARNING

Chemical

WARNING

EZ control

Pressure manifold

Parts & Service

When you're down – trust Goldacres to pick you up

Farming can be unpredictable, we understand that spray application is time critical, and that idle time costs more than just money.

Goldacres' extensive Australia wide dealer network with trained sprayer technicians are there for when you need them the most.

Trust Goldacres support to have your machine back up and spraying quickly.

No one knows your sprayer like Goldacres

Goldacres dedicated team of product specialists stand beside the dealer, and right behind the product, with the industry's best knowledge.

All of our sprayers are proudly built right here in Australia we know exactly what parts go where and how to fit them. Our fully stocked warehouse carries over 20,000 line items ranging from the smallest o-ring to the largest boom wing. Rest assured we have the part you're looking for.





GOLDACRES

GOLDACRES

Specifications

	SMALL FRAME PRAIRIE SPECIAL		LARGE FRAME
	Prairie Special 1500L, 2000 & 2500L	Prairie Special 3000L	Prairie Special 4000L
Chassis	Fully welded modular construction 125 x 75 x 6mm RHS Single beam bolt on drawbar with forged tow eye	Fully welded modular construction 125 x 75 x 6mm RHS Single beam bolt on drawbar with forged tow eye	Fully welded modular construction 200 x 100 x 6mm RHS. Converging twin spar A frame with single beam drawbar and forged tow eye
Stub axle size	70mm	70mm	90mm
Axle type	Rigid axle - standard	Rigid axle - standard	Rigid axle - standard – Air bag suspension - optional
Axle track width	1800mm - other widths on request	1800mm - other widths on request	2050mm - other widths on request
Wheel and Tyre sizes	14.9 x 24	16.9 x 34	18.4 x 38
Full length poly mudguards with mud flaps	Optional	Optional	Optional
Tow bar	N/A	Optional	Optional
Rate controller	3 way electric with electric regulation - standard Raven SCS450 - optional ISO BUS - optional	Raven SCS450 ISO BUS - optional	Raven SCS450 ISO BUS - optional
Spray pump	140 l/min with PTO - standard Hydraulic drive - optional	170 l/min with PTO - standard Hydraulic drive - optional	170 l/min with PTO - standard 260 l/min with PTO - optional Hydraulic drive - optional
Filtration	1 x suction, 2 x pressure & nozzle filters - standard	1 x suction, 2 x pressure & nozzle filters - standard	1 x suction, 2 x pressure & nozzle filters - standard
Water transfer (filling)	2" integrated fill point with EZ control	2" integrated fill point with EZ control	2" integrated fill point with EZ control
Main tank drain	1.5" remote operated	2" remote operated	3" remote operated with cam lock fitting
Main tank capacity	1500L, 2000 or 2500L	3000L	4000L
Rinse water tank capacity	100L	180L	400L
Tank rinse nozzles	Single rotating	Twin rotating	Twin rotating
Boom type and size	Delta 15m, 18m and 21m	Delta 18m, 20m, 21m and 24m	Delta 18m, 20m, 21m, 24m – TriTech 24m, 28m, 30m
Boom outer	Aluminium with outer wing break back feature	Aluminium with outer wing break back feature	Aluminium with outer wing break back feature
3D breakaway mechanism fitted to outer wing	Optional	Optional	Delta - optional – TriTech - standard
Boom end protectors	Optional	Optional	Delta boom - optional – TriTech boom - standard
Individual wing tilt	Optional	Optional	Optional
Number of hydraulic remotes required	1 set for lift/lower 1 set for fold in/out 1 set for spray pump if hydraulic drive optioned 2 sets for boom wing tilt if optioned	1 set for lift/lower 1 set for fold in/out 1 set for spray pump if hydraulic drive optioned 2 sets for boom wing tilt if optioned	1 set for lift/lower 1 set for fold in/out 1 set for spray pump if hydraulic drive optioned 2 sets for boom wing tilt if optioned
Electric over hydraulic spool valves. (2 sets of remotes required)	Hydraulic manifold to operate 4 functions with switch box. Open or closed centre system	N/A	N/A
Number of boom sections	3 equal width section - standard 4 or 5 sections - optional	3 equal width section - standard 4 or 5 sections - optional	3 equal width section - standard 4 or 5 sections - optional
Trijets – Turret design	Optional	Optional	Optional
Trijets – Clock face design	N/A	N/A	Optional (TriTech booms only)
Electric operated fence line nozzles	Optional	Optional	Optional
Chemical induction hopper	Optional – 40L	Optional – 40L	Optional – 60L
Transcal	Optional	Optional	Optional
Chemical Transfer Pump	N/A	N/A	N/A
Micromatic rinse socket & coupler	Optional	Optional	Optional
Foam marker 100L Exacta double sided	Optional	Optional	Optional
Remote grease nipple bank	N/A	N/A	Optional

PRAIRIE SPECIAL

Prairie Special 5000L
Fully welded modular construction 200 x 100 x 6mm RHS. Converging twin spar A frame with single beam drawbar and forged tow eye
90mm
Rigid axle - standard – Air bag suspension - optional
2050mm - other widths on request
18.4 x 38
Optional
Optional
Raven SCS450
ISO BUS - optional
170 l/min with PTO - standard
260 l/min with PTO - optional
Hydraulic drive - optional
1 x suction, 2 x pressure & nozzle filters - standard
2" integrated fill point with EZ control
3" remote operated with cam lock fitting
5000L
400L
Twin rotating
Delta 18m, 20m, 21m & 24m – TriTech 24m, 28m, 30m, 33m & 36m
Aluminium with outer wing break back feature
Delta - optional – TriTech - standard
Delta boom - optional – TriTech boom - standard
Optional
1 set for lift/lower
1 set for fold in/out
1 set for spray pump if hydraulic drive optioned
2 sets for boom wing tilt if optioned
N/A
3 equal width section - standard
4 or 5 sections - optional
Optional
Optional (TriTech booms only)
Optional
Optional – 60L
Optional
Optional
Optional
Optional
Optional





Goldacres Trading Pty Ltd
1-3 Morang Crescent, Mitchell Park 3355
P: 03 5342 6399 - F: 03 5342 6308
goldacres.com.au

The policy of Goldacres is one of continuous development and improvement. Goldacres reserve the right to alter any specifications, designs and prices of the range shown without notice and without incurring any obligation regarding such changes. The pictures and information shown or referred to in this publication are a general guide only. Should you purchase the items from this publication the publication does not form part of the contractual arrangements with Goldacres. The purchase of any item of equipment is subject to the Goldacres Terms and Conditions of sale. 04/16 GA9500005

