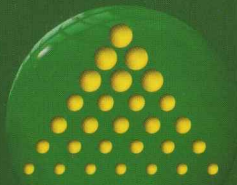


PRAIRIE BROADACRE SPRAYERS



GOLDACRES
Australia's World Class Ag-Sprayers

Prairie Tankers

Tank design incorporates a very simple shape without complex internal curves creating areas which are difficult to decontaminate. Tanks are made from blockout polyethylene preventing light entry to the tank. Tank features large, full length sump and drain tap.

Chassis

Chassis constructed from:
150 x 100 x 6.0mm RHS (3000Lt).
200 x 100 x 6.0mm RHS (4000 - 6000 Lt).

Axles

Axles can be turned to increase sprayer underframe clearance.

Wheel track

Differing wheel tracks are available.

Drawbar

All welded, height adjustable drawbar with hardened replaceable insert for drawbar pins. Draw bars are available with differing lengths for different boom sizes.

Weight Distribution

Weight is distributed to transfer sufficient weight to the tractor drawbar to provide smooth ride and traction, without overloading the tractor.

Sprayer width

The overall width of the sprayer has been reduced to approximately 2.5 metres, an important design consideration when it comes to transporting the sprayer along Australian roads.

Step through non-slip platform

Step through non-slip platform to eliminate accidents from sliding on a slippery material, an access platform made of perforated metal sheet is fitted to provide a non-slip surface. Access to the tank can be made from either side of the sprayer via the step through platform. Steps are provided for access to tank lid.



Wheels

All sprayers are built on large diameter single wheels. These may be fixed or supplied with airbag suspension. The large diameter single wheel configuration provides good ride and easy towing.

PRAIRIE BROADACRE SPRAYERS



Raven SCS440

The Raven SCS440 automatic controller maintains a constant volume per hectare at varying speeds. It always displays rate, has alarm, two automatic rate settings, manual rate control, speed sensor, flowmeter, boom valves and three boom switches, and is 2TS dual boom compatible as standard.



Diaphragm pump



Multi-function fill station

To reduce fill and rinse time by allowing multiple functions such as tank rinsing, filling of foam marker water tanks and rinse water tanks to be carried out at the same time, Goldacres supply a rotary, multi-function valve assembly.



2" fill filter

Huge screen area and unrestricted 2" bore to speed up tank fill time.



Fill limiting valve

Goldacres are well aware of the difficulties users face when trying to fill the sprayer tank to its maximum without overflowing the tank, allowing chemical laden water to spill over the sprayer and contaminate the ground below. To prevent this spillage, Goldacres supply a fill limiting valve. This valve senses when the tank is almost full and restricts the quick fill line to prevent overflowing. In addition a pressure gauge fitted to the fill line will record the increased pressure in the fill line when the valve activates.



Locker

A robust polyethylene locker is mounted at the front of the sprayer. It features two separate compartments to store equipment, such as overalls and gloves. The foam marker compressor and air suspension compressor are housed within this locker.

Venturi chemical suction probe

A simple method of transferring chemical into the sprayer tank is via the chemical probe. The chemical probe enables the chemicals to be transferred with minimal exposure to the operator. The probe is used in conjunction with the Venturi filler which creates the required suction on the pressure side of the pump.

Agitation

A large venturi is fitted to the back of the tank on a bypass line. This venturi (super mixer) can utilise a large bypass flow and has a high multiplier effect (depending on pressure) assisting tank agitation. The nozzle can be removed for cleaning from outside the spray tank.



GOLDACRES FOR QUALITY BOOMS



Delta boom

The Delta suspension gives unmatched boom stability and ride. Delta booms provide three way suspension which dampens the forces of pitch, roll and yaw, giving a more even application while decreasing stresses on the boom. Non-drip check valves are fitted as standard, as are quick fit polymer caps and tips. One manually operated fenceline jet is standard on Prairie Delta booms. Choose from booms 12 metres wide to 36 metres.

Aluminium— lighter, stronger, better chemical resistance.

The weight of the outer section of the Delta boom has been decreased by constructing part of the boom in aluminium. This dramatically reduces the inertial effects of turning on the boom suspension structure. The aluminium boom wings produced by Goldacres utilise leading edge technology in their manufacture with water jet cut components used extensively. Jet bodies are fitted on stainless steel brackets behind the boom for protection from damage.



Boom mast

Mast type boom attachment for good boom ride and low maintenance. Better vertical suspension; less stress from boom movement; boom closer to rear of sprayer; simpler to raise and lower onto rests.



Dual Boom

The Goldacres 2TS dual boom system has given users a significant operational benefit by providing a greater speed and application rate window. The system has two complete and totally separate boom lines on the same boom frame. The 2TS dual boom system is completely controlled by the Raven SCS440 automatic monitor controller which is dual boom compatible as a standard feature. It provides the operator with major operational advantages over traditional line sprayers:

1. Higher application rates can be achieved without using larger nozzles thus maintaining smaller droplets for better coverage.
 2. Operating pressures can be kept low to reduce drift.
 3. Greater operating speed changes can be made without exceeding optimum nozzle operating pressures.
- The system also includes a line low pressure indicator, which will alert the operator if a section drops below 15 psi.



Mudguards

For longer mudguard life, mudguards are mounted to the chassis where they are isolated from vibration.

Raven FlowMax 220 fill flowmeter

- 750 litres/minute maximum flow rate.
- Three separate total volumes.
- Three button programming.
- Six digit digital display.
- 3.6 volt AA replaceable battery.

"Self contained - no other consoles or flowmeters needed."



Tank rinsing nozzles

The tank rinsing nozzles are specially designed for access from outside the tank and easy disassembly for cleaning. These are normally operated from the fill water supply or may alternatively be operated by the sprayer pump.



Raven Precision Products

SwathSmart lightbar guidance system:
the faster, simpler, more reliable GPS guidance system.



Features:

Simple to setup, easy to operate and convenient to move; bright lights for easy viewing in direct sunlight; dim lights for viewing in darker environments; designed for in-cab or out-door use in all weather conditions; remote control box for easy operation; calculates field area; automatic swath advance; angle error lights provide look ahead; optional tilt compensation for accurate guidance on side hills and steep slopes; antenna offset; save position; connects to any Raven GPS receiver or existing receiver.

DATAboy data logging system:



Now you can easily acquire, view and share detailed product application data with Raven's DATAboy Data Logging System.

Features:

Collects on the go application information; easy to install and operate; no complicated settings, no display to adjust or interpret; stores information in shapefile or ASCII format; connects to any new or existing GPS receiver; compatible with common mapping programs; stacks on top of most Raven consoles; available with basic map viewing software.



Solenoid operated fenceline jets



Banjo hydraulically driven fill pump

Provides a neat, self contained pump which is always on the tanker and eliminates the need for engine driven fill pumps.



PRAIRIE ACCESSORIES

Exacta foam markers with direct injection

The foam marking system that delivers accurate markings every time.

This marking system developed by Goldacres engineers is a major breakthrough in markers for sprayer guidance. The Exacta foam consistently delivers larger volumes (up to 20L/ min) of foam in big dobs or lines for easy visibility. It will operate successfully in hot or cold weather and is reasonably tolerant to hard water.

With the Direct Injection, foam concentrate is stored in a separate 25 Lt container and injected into water supply as foam is being generated. This eliminates the need for pre-mixing water and concentrate.

Chemical induction hopper

For the safe and easy transfer of all type of chemicals.

This hopper is calibrated and can be used to measure liquid in the hopper; rinsing drums; transferring and some mixing of liquid and dry chemicals in transit to the spray tanker.



Airbag suspension

There are real gains to be made with the inclusion of air bag suspension to your Prairie sprayer.

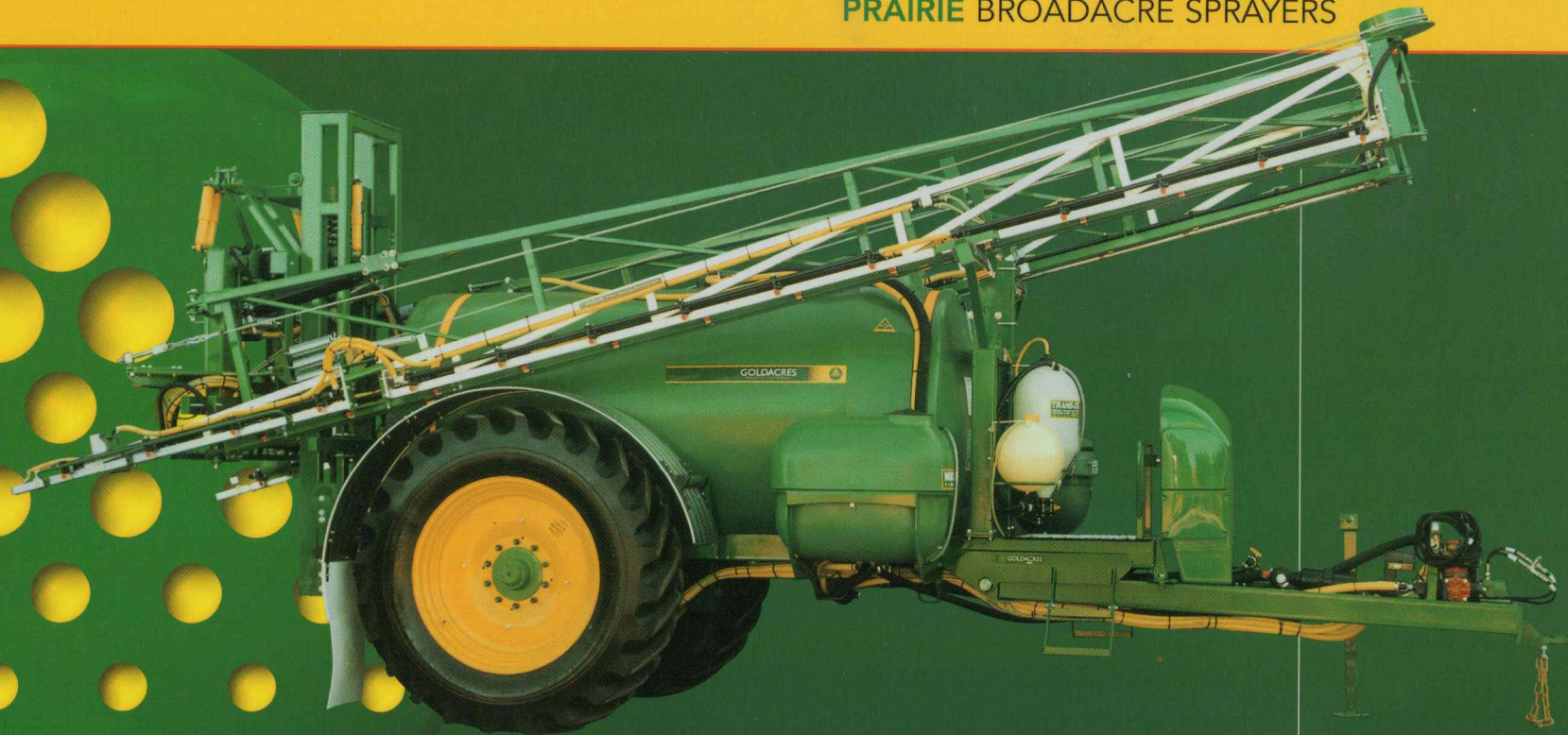
Airbag suspension gives constant ride height, and eliminates roll on cornering. The major suspension components are profile cut from high tensile Bisalloy plate, simplifying manufacture and improving modularity. The axle can be rotated to increase underframe clearance.



TransCal

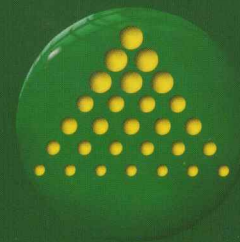
Is the answer for chemical transfer. Provides a system of liquid chemical transfer and measurement. Can utilise a probe to draw the chemical from an open container or can be used in conjunction with Envirodrum couplings and containers to provide a totally enclosed transfer system. In addition to chemical transfer, the TransCal measures chemical to be transferred by volume, not by flow, giving consistent accuracy regardless of the viscosity of the liquid being measured. Now you can utilise the Envirodrum system without the cost of additional pumps and flowmeters.

PRAIRIE BROADACRE SPRAYERS



YOUR LOCAL DEALER

The pictures and information in this publication are a general guide only. Sprayer weight must be calculated and matched only to a tractor or vehicle of sufficient safe lifting and carrying capacity. Should you purchase the item of equipment, this publication does not form part of the contractual arrangement with Goldacres. The purchase of any item of equipment is subject to Goldacres terms and conditions of sale.



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