

## AUSTRALIAN DESIGNED & MANUFACTURED

### Ausplow Pty Ltd Patents

Australia – Patent Applications

2016265961  
2014218389  
2017208365  
2011201476  
2013101020  
2014100020  
2007202351

Australia – Design

357623  
357621  
357622  
358195  
358194

Australia – Trade Mark

1721948  
1867631  
1878979  
1388145  
1721947  
744548  
1388144  
718050  
718049

### Ausplow Pty Ltd Patent Applications

Canada

2590993  
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China Design

ZL2011530027442.0  
ZL201530027472.1  
ZL201530027700.5

UK Design

4000796

South Africa

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2011/02370  
2014/06328  
2016/08662

Design

A2015/00081  
A2015/00088  
A2015/00089  
A2006/01881

Trade Mark

2010/24395  
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2010/24397  
2010/24398  
2010/24394

USA

8220559  
8881663  
9872426  
9706704

Design

15/406239  
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**AUSPLOW**  
Digging deep for every farmer.

**PRECISION SEEDING SYSTEMS** | EDITION 7



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For more than 40 years, I've dug deep to develop agricultural mechanical systems that improve soil structure and crop yields. During this time, I've been fortunate enough to earn the Prince Phillip Prize for Engineering Excellence and an AM from the Queen for services to primary industry, particularly in the promotion of environmentally sustainable cropping and soil management practises. Yet nothing is more rewarding than hearing from farmers themselves about the dramatic changes to their soils delivered by our (DBS) Deep Blade System.

## JOHN RYAN AM

Ausplow Principal

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It's been more than 20 years since we commercialised our three-slot system for DBS, and independent testing has shown that it's the right tool. By creating pathways for moisture, root penetration and air, the DBS system helps build the right soil environment for seeds to grow into healthy plants. Farmers are experiencing improved water-holding capacity, major reductions in water erosion, increased levels of organic carbon and in some areas, the presence of earthworms. The DBS system is also sought after for its dry-seeding capabilities – crops can be established earlier as the seed is able to take advantage of subsoil moisture.

And that's just the beginning. While soil optimisation will always be a major priority for us and Australia's dryland farmers, our R&D efforts are unearthing new ways to increase plant nutrition and crop yields.

The future for agriculture is exciting, and we look forward to being at the forefront with you. We are finding that our original designs actually complement the growing trend towards in-furrow treatments, particularly liquid nutrients.

Thank you for taking the time to find out more about us, and we look forward to finding out more about you and your farming vision.

## HOMEGROWN FOR THE NEXT GENERATION

At Ausplow, solving Australia's dryland farming challenges starts at ground zero. To dig deep for every farmer, we need our manufacturing and support services on home soil.

We're proud to say that all Ausplow fabrication, welding, blasting, painting and equipment assembly takes place in our Western Australia based facilities and factories. Our nationwide support network is homegrown too. So wherever you're farming across the country - from Wongan Hills (WA) to Cummins (SA), Shepparton (VIC) and West Wylong (NSW) - you know we're just a flight away to visit, learn, educate and assist.

Farmers and dealers benefit enormously from our local sales, service and parts support, which includes DBS and Multistream owner schools run at Ausplow dealerships. Our fully equipped Ausplow Service Vehicles mean we can respond promptly, hitting the ground to solve problems when you need us most. And with after-hours parts and service support deployed from our factory during peak season, we're never far away.



At the crux of it is the motivation that drives us - help make your farm profitable. Because we employ local people (especially from agricultural regions), we're able to get boots on ground and visit the farms that use our products. This helps us understand exactly what is going on for you and your farm, what your needs are, and how we can help innovate better solutions. We've invested in training, so the people you talk to know what they're doing. And they're passionate about sharing this knowledge with you. So if you're curious about knowing the best way to use your Ausplow, just ask.

It's all about 'making it work' for you. We get many ideas from the paddock, then invest in R&D to unearth solutions, in fact, talking to Australian farmers is how we developed our engineering intent. You told us that reliability, durability, quality and flexibility are critical to your farm's profitability. And we listened. Today, Ausplow machinery is 'backwards compatible' wherever possible, a big reason why our machines are valued higher than others on the market. They might look similar, but you only get out what you put in.

We're proud of what we achieve in the pursuit of regenerative agriculture, right here in Australia. And we'll continue to share what we learn, from our family to yours.



# DEEP BLADE SYSTEM

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Since its introduction to the market in 1994, the DBS (Deep Blade System) Auseeder Precision Seeding System for broadacre farming has consistently led the way in terms of under-seed cultivation and precision seed placement.

The system is unique in that it has been developed for both winter and summer cropping and is suitable for all soil types.

Its design ensures seeding accuracy with excellent subsoil cultivation and minimal topsoil disturbance.

Each season, you can visibly see improvements in soil structure and quality, and water infiltration will significantly increase.

The DBS has been designed to overcome the problems of poor depth penetration, inadequate seed placement and excessive damage due to tine chattering, which results in incorrectly placed seed.

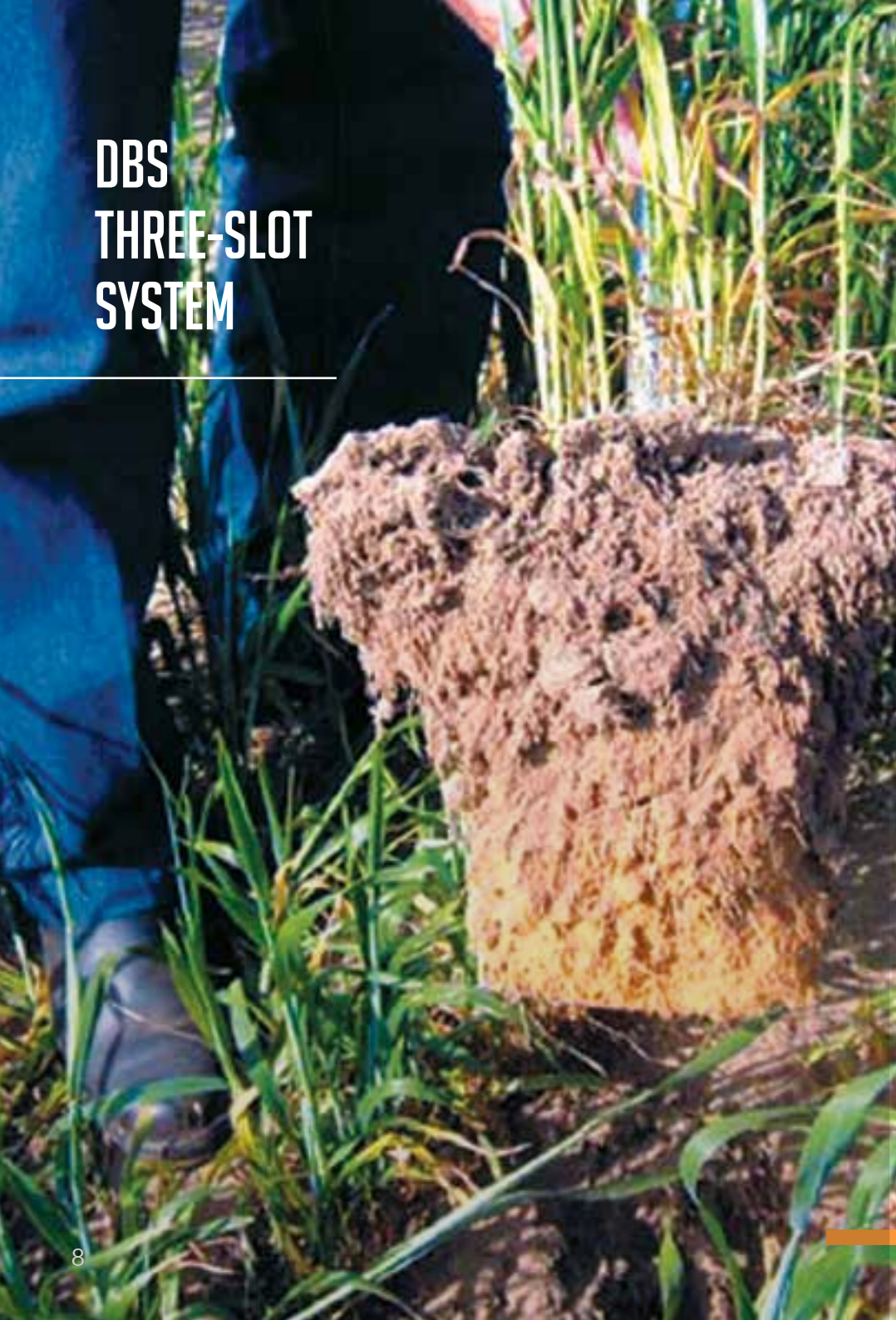
Its reliability, performance and proven higher yields are features that will continue to set it apart from others in the market. By using the DBS system, you can be confident of:

- Increased productivity gains
- Improved yields
- Early vigour and growth
- Higher soil nutrient quality and
- Increased furrow water holding capacity.





## DBS THREE-SLOT SYSTEM



The DBS (Deep Blade System™) Three-Slot System involves deep under-seed cultivation, a shallow bed for seed, a defined 'slot' trench for water harvesting and a protective environment for germinating seeds. The DBS modules are designed for separate seed and fertiliser delivery, providing a systems approach to give you:

- Subsoil cultivation which is vital to reducing barriers
- Precise fertiliser placement
- Correct seed depth
- Exact environment for the seed and
- Cost-effective chemical usage and safe application.

The three-slot system comprises a 15mm wide tungsten faced adjustable DBS blade, an adjustable closing tool and a ground following spring-loaded depth gauge press wheel.

## HOW IT WORKS

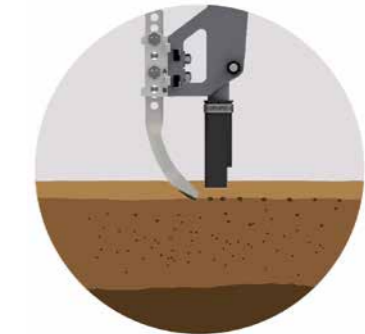
### 1ST SLOT

The DBS blade gives vertical cultivation, deep into physical or toxicity barriers, and the flat leading blade causes soil to burst ahead with improved aeration and water infiltration. Fertiliser can be placed behind the digging blade, profiled, or a percentage deposited with the seed as a 'starter'.



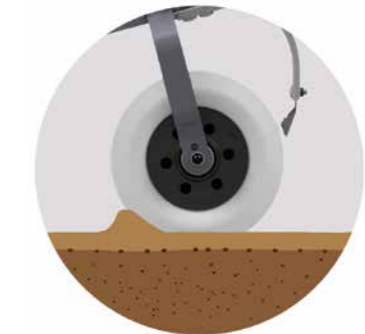
### 2ND SLOT

This tool collapses soil downwards, creating a firm and even seedbed. The face of this tool is covered with a tungsten tile, giving long-life whilst maintaining the width of the tool throughout its operating life. The closing tool with its rounded face reduces the amount of material that can accumulate whilst passing through the ground.



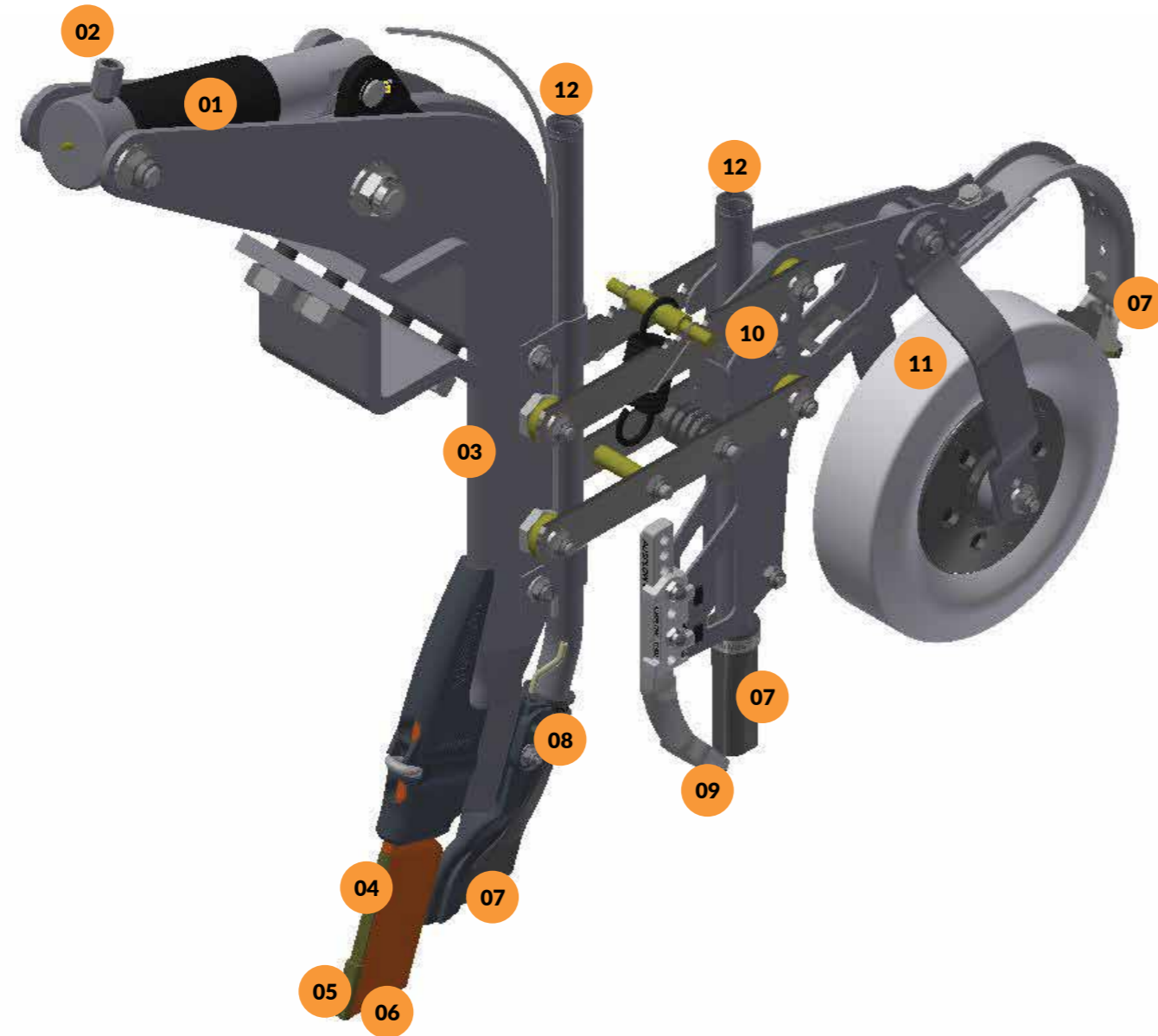
### 3RD SLOT

The ground following Press Wheel gives precise depth placement. The wheel pushes soil forward in a wave action, causing it to flow inwards while covering and gently firming the soil around the seed to ensure good seed-soil contact.





# DBS TINE SNAPSHOT



## 01 Hydraulic Tine

Hydraulic tines ensure the transfer of damaging vibrations to the parallelogram is virtually eliminated. The unique design of the jump cylinder ensures sealing surfaces are not exposed to the elements. The jump cylinder holds the tine in the correct digging position.

## 02 Cushion Return Valve

A cushion valve is fitted as standard in each jump cylinder, guaranteeing a soft return of the tine and DBS mechanism to minimise damage to machinery.

## 03 Shank

The forged and heat treated 90mm x 20mm edge on shank comes with a history of proven durability. The tine assembly includes grease-able and replaceable tine pivot bushes and hardened pins.

## 04 Blade Length

Blade length is critical to achieving disturbance of yield-limiting hardpans. Depending on soil types and paddock conditions, two adjustable blades are offered in 5-7 inch and 7-9 inch configurations. The shorter 5-7 inch blade is recommended in rocky conditions, heavy clay or where available horsepower is limited. The longer 7-9 inch blade can be used in sandy soil types where little or no foreign objects are encountered. It is essential that the actual digging depth is matched to blade length.

## 05 Blade Design

Our digging blade is made of hardened and tempered spring steel for strength. The 15mm (W) x 50mm (L) bursting tile and 15mm wide tungsten tiles along the remainder of the face gives maximum durability, and improves the wear life of the blade.

## 06 Blade Angle

Creating the ideal seeding conditions requires maximum sub-soil disturbance. This requires steep blade angles which give a greater bursting action. The DBS blade angle is set at 20 degrees to the vertical. This in-turn requires heavy duty hydraulic tines, heavy duty frames, and fixed drawbars.

## 07 Precision Liquid Delivery

Liquid can be plumbed to each DBS module at 3 locations, and is delivered in a pencil stream under pressure into the soil.

Liquid placement in furrow at 3 locations:

- Deep banded behind knife blade for Liquid N & Trace Elements
- At seed placement for Fungicides
- Behind press wheel for Soil Wetters.

## 08 Fertiliser Shield & Boot

Directly behind the digging blade is the fertiliser shield and boot which has an adjustable depth from 3" to 4" enabling excellent separation between the seed and fertiliser.

## 09 Closing Tool

Seeding depth adjustment is achieved by changing the position of the closing tool which is part of the parallelogram seeding unit. Four types of closing tools are available to suit various seeding conditions.

- Heavy to Loam conditions, the 30mm (suitable with Std Seed Boots), 45mm (Std Seed Boots and/or Small Seed Boots)
- Loam to Sandy conditions, the 60mm (suitable with Std or Split Seed Boots), and the Paired Row System.

## 10 Parallelogram Seeding Unit

The DBS parallelogram seeding unit has 4 notch spring pressure position settings for the press wheel, where pressure is set independently from the hydraulic tine.

Position A – Lightest down force used when seeding into deep sand or very wet condition.

Position D – Heavy clay conditions and achieves optimum soil seed contact in dry, cloddy conditions.

The parallelogram arms are made from highly durable spring steel and connected to bush housing with a lubricated sintered nickel bush.

## 11 Press Wheel

The multi-purpose, smooth semi-pneumatic press wheel undertakes three functions – gauge wheel, seed covering and pressing the soil to obtain seed-soil contact.

Press wheels are offered in five (5) sizes to suit various seeding conditions:

- 70mm 'V' shape for heavy clay, and high moisture conditions
- 50mm for heavy soil conditions
- 70mm for all round conditions where a variety of soil types are encountered
- 90mm for lighter soil conditions
- 135mm for light and soft conditions.

## 12 Precision Granular Delivery

The DBS incorporates as part of the tine assembly 32mm (316 grades) stainless steel tubes with polyurethane boots for effective dual shooting delivery of fertiliser and seed.

# DBS AUSEEDER SNAPSHOT



## Dual Hose Secondary Air Kit

Hose kits include the secondary (63mm) and tertiary (32mm) hose system. Secondary air kits are supplied with stainless steel standpipes and heads with 63mm and 32mm durable rubber hose, and supported on solidly made stands.

## Wheels & Wheel Arms

All DBS bars come standard with 385/65 22.5 lug tyres, or the optional 400/60 22.5 flotation tyres for reduced ground compaction or Control Traffic Farming system practises.

Supporting each wheel are heavy duty 80 series axles and bearing housing, with an adjuster turnbuckle to assist in the levelling and setting the digging depth equally across the width of the bar.

## Frame

All DBS bars have a fully trussed centre frame and wings, 100mm x 100mm x 9mm to provide superior strength and integrity in carrying the DBS tine modules, and enabling the ability to dig at depth.

For added durability all frames come with a two pack urethane paint finish.

A relief valve is fitted as standard to prevent damage during unfolding of wings if the transport pins are accidentally left in place.

Frame sizes range from 8.32m (27'04") to 18.3m (60'00").

## Hydraulics

All DBS bars are supplied with a phasing hydraulic system when raising or lowering the bar.

Digging depth control is easily adjustable with various sized depth stops positioned for each hydraulic cylinder.

## Fixed Hitch

All DBS bars have a fully trussed drawbar, 200mm x 100mm x 6mm for strength, stability, and reduction of crabbing with controlled traffic. Drawbar comes with safety chain and shackle to tether to an implement.

Choice between an adjustable Cat 4 (50mm) or Cat 5 (70mm) towing tongue and enabling to control the digging depth fore and aft.

The drawbar is also suited to carrying a drawbar mounted Multistream up to 6000kg for DBS bars model sizes up to 10.92m (35'10").

## Stability Wheels (front)

If coulters are not fitted, front stability wheels are optional to provide bar stability when encountering difficult dry seeding conditions.

## Tine Spacings

DBS bars have 3 tine spacings available to suit various regions and environments:

- 260mm
- 300mm
- 381mm.

Rows can be further narrowed with the use of a split or paired row boot option.

## Accumulator

1 x 20lt accumulator fitted to rigid frame and narrow transport models. An additional accumulator can be added for very rocky conditions to these models.

2 x 20lt accumulators fitted to all wide transport and double fold models.

Tine accumulator system incorporates a tine lock-off valve with a large easy to view pressure gauge.

## Coulters

Coulters can be added to all DBS bars. Coulters will enhance trash flow in heavy stubble, root bound pastures and crops, and when melon or wire weed vines are encountered. Coulters will allow an increase in working speeds of approximate 1 km/h in most conditions.

Coulters are available in 460mm (18") diameter with the option of flat or ripple discs and mounted on double tapered bearings hubs and solid beam axle.

If coulters are not required for use, you have the ability to disengage the coulters manually by the use of single person operation coulter locking tool, known as 'Rogers Lock'.

## Cables

Cables are an integral part of the DBS Auseeders to reduce stress loadings to the frame and hinges when digging deep in all soils types and conditions.

- Single folds supplied with single wing cables
- Double folds supplied with inner and outer wing cables.

## Liquid Kit

The DBS bars primary liquid kit delivers from the tank to a ¾" main feed line into a ½" feed line non-drip secondary manifold mounted onto the 63mm stainless steel secondary air kit standpipe. From the manifold 6mm nylon tube runs to the end of the 32mm air hose into a suzi-coil 'Friction Flow' tube through to the Pro-D fertiliser shield and boot for added protection, and delivering with a pencil stream action.

Liquid placement available in 3 in-furrow locations:

- Deep banded behind knife blade for Liquid N & Trace Elements
- At seed placement for Fungicides
- Behind press wheel for Soil Wetters.

Options include the availability of liquid sectional control.

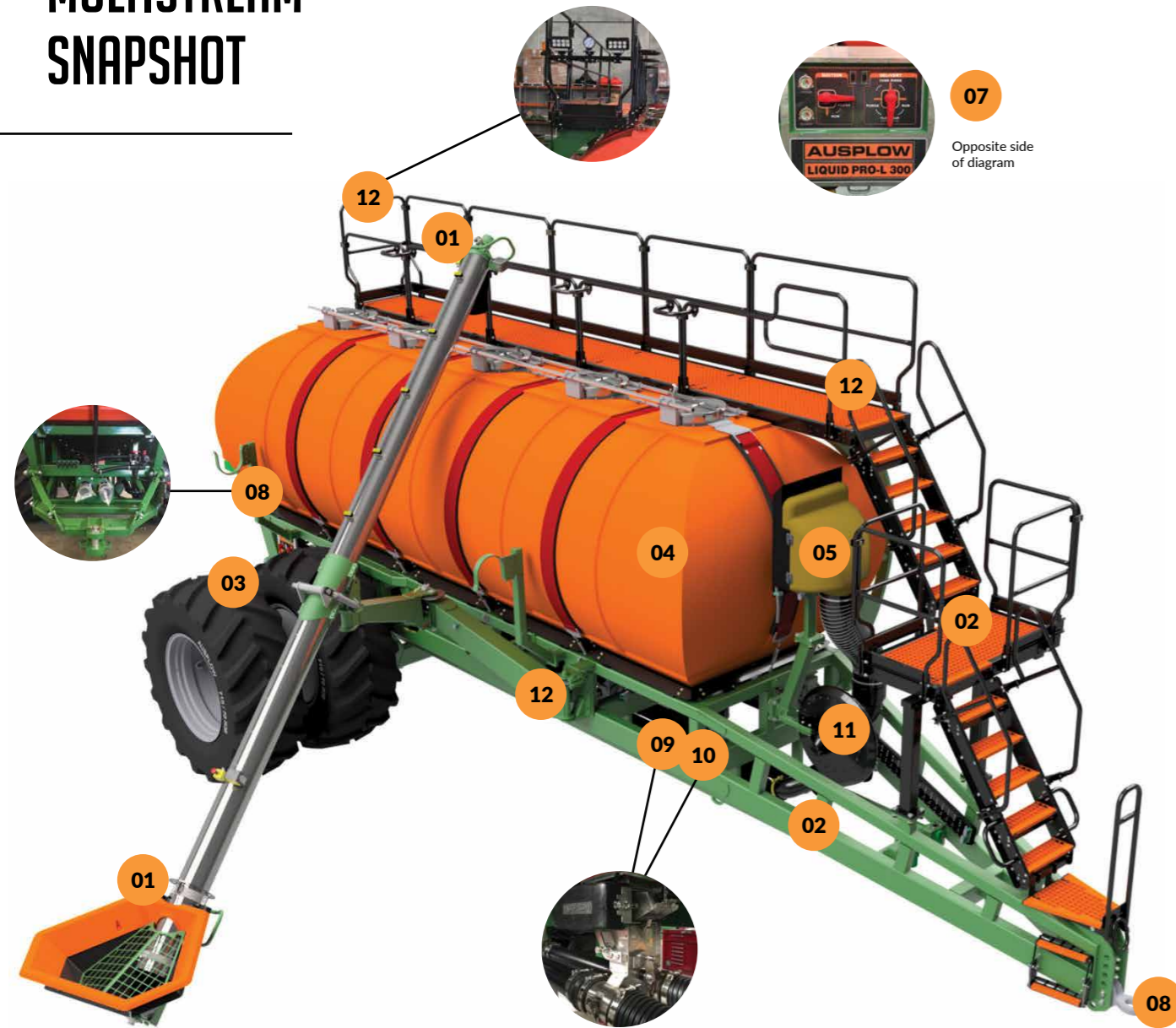
## Hitch Hydraulic Connections

All DBS bars have standard ½" ISO male and come with coloured safety easy-grip hose connectors and decal indicating functions for ease of operation.

The hydraulic functions are; Tine Pressure, Bar Lift & Lower, Wing Fold & Unfold.



# MULTISTREAM SNAPSHOT



## 01 Filling System

A 200mm (8") or 250mm (10") hydraulically driven auger capable of delivering seed and granular products is standard on Multistream bins.

- The 250mm (10") auger barrel is made from corrosion resistant stainless steel, and the auger flyte made with smooth cupped plastic delivering a gentle and quiet action to reduce seed and fertiliser damage
- The high flow auger screen and hopper complies with Australian Standard AS2153.1. The hopper comes with hungry boards making filling with low density products such as oats much easier, and can be easily removed to allow emptying of the Multistream tanks
- Auger operation comes with a hand held remote, as well as manual control. The hand held remote control the auger motor, hydraulic lower and upper arms for positioning, and lifting of the auger for ease of operation and stowing
- E-Stop (Safety Electronic Stop) is provided for additional safety both at the top and bottom of the auger.

## 02 Walkways & Frame

Considered the material of choice for industrial applications, our walkways are made from strong, flexible, lightweight fibre reinforced plastic which is coated with a non-slip surface. Walkways are designed to be spacious giving you have safe access to the top of the tanks without standing on them with an additional bonus of rails that may be lowered to reduce transport height if required.

All Multistreams have a 200mm x 100mm x 6mm boxed and trussed heavy duty frame, and for added durability all frames come with a two pack urethane paint finish.

## 03 Wheel & Axle Options

Models come available in single or dual wheels, and for CTF Systems options available are single wheels or tracks on 3 metre centres.

## 04 Tank Choices

Ausplow's high density polyethylene tanks are available in 1500, 2000, 3000, 4400 & 4700lt capacities. Polyethylene offers the following advantages over conventional steel and stainless steel tanks when used for either granular or liquid products:

- Reduced 'sweating' inside tanks in high humidity environments
- Ability to resist corrosion with very low Ph solutions (i.e. phosphoric acid)
- Lower friction properties reduce the incidence of bridging
- Flexibility for granular or liquid product.

## 05 Cleaning of Heat Exchanger

A convenient swing out cowl is accessible from the mid platform, and allows for quick and easy cleaning of the heat exchanger radiator.

## 06 Monitor/ Controller Choice

The Multistream offers a choice of airseeder controllers to suit individual needs. The total system design allows a granular or liquid metering unit to be controlled by the same controller without specialised programming or additional hydraulic components.

Variable rate technology using electric over hydraulic control offers exceptional torque to metering wheels ensuring accurate rates are achieved even when using difficult to meter fertilisers.

On board controllers available to suit are: Topcon, John Deere, Trimble, RAVEN and ISOBUS systems.

*Not shown in diagram.*

## 07 Liquid Cabinet Delivery System

An externally mounted liquid cabinet delivery system is optional. The 800mm x 840mm stainless steel cabinet is designed for ease of servicing, and is mounted on the LHS of all Multistreams. The liquid cabinet can be controlled by Topcon, Trimble, RAVEN and John Deere.

Requires one liquid cabinet for each tank, and comes with the following standard integrated features:

- Agitation
- Auto Calibrating
- Manual Tank Rinse
- Manual Bar Flush.

Furthermore, stainless steel is used for the plumbing and componentry including the Hypro pump.

On the RHS of the Multistream you have a 3 inch stainless steel quick fill station along with a product sight gauge for each liquid tank.

The Multistream allows any liquid or granular product to be used from any tank.

## 08 Towing Hitch Connections (Front & rear)

Front (towing tongue) and rear (pin) connections have available Cat 4 (50mm) or Cat 5 (70mm) sizes to suit particular sized tractor or seeder.

Option available to mount at the rear of a tow between a hitch adaptor kit to suit an 'Implement Guidance System Hydraulic Hitch'.

## 09 Cameras

Optional cameras fitted onto the granular metering unit to view and ensure product flowing from the metering rollers prior entering into the air stream, along with cameras inside each of the granular tanks to monitor product level.

## 10 Metering Unit

The seed and fertiliser metering units are made from marine grade stainless steel. Each unit allows distribution of product into either air stream at positive pre-set quantities of 0%, 25%, 33%, 50%, 67%, 75% and 100% to achieve desired blending rates.

Low maintenance and low wear plastic staggered tooth metering wheels are hydraulically driven and allow seeding rates from as low as 1kg/Ha of seed and up to 250kg/Ha of fertiliser depending on bar size.

A unique multi-positioned stainless steel metering flap is simple to adjust and eliminates the need for separate metering wheels or bolt-in restrictors. Fully opening the flap allows for a simple and through bin cleanout.

## 11 Fan

The standard capacity turbo fan incorporates a 19cc hydraulic motor and is capable of dual shooting 72 times (total 144). Oil is filtered prior to the motor and is then used to pre-heat the air stream and cool the oil system via industrial grade oil cooler.

Whilst a maximum of 4000rpm requires 80 litres per minute (lpm) oil flow for the largest precision seeders, 3000 rpm and 60 lpm will satisfy most seeding rigs and conditions.

Option available for a dual fan system to suit tractors fitted with twin pump hydraulics (428lt/min) requiring high demand delivery of granular and liquid and with optimum fan control.

## 12 Lighting System

A full LED lighting system is optional providing the following functions:

- Implement (DBS Auseeder)
- Service (Within various chassis locations)
- Walkway & Platform (Safe access up and around)
- Auger (Hopper & Discharge points)
- Safety Beacon (Oversize load).



## PRECISION LIQUID DELIVERY



We have dedicated many years of research and development to produce our precision liquid system. With knowledge of the complex nature of soil types and varying soil conditions, Ausplow has integrated its liquid delivery system with its DBS seed establishment system.

Liquid can be plumbed to each DBS tine module so that liquid compound fertiliser (N, P, K) and mixes (to include trace elements and other chemicals) are delivered in a pencil stream under pressure into the furrow (BIO-FURROW™) ensuring nutrient is

available exactly where it is needed to assist early vigour and growth.

The liquid is plumbed to run from one, two or three tanks through a centrifugal pump with impeller. The centrifugal action forces the liquid out of the pump outlet, and the liquid flows towards the bar manifold delivering the liquid in a pencil stream through a Friction Flow™ tube directly into the BIO-FURROW™. The Friction Flow™ can cater for rates as low as 20L/Ha and up to 150L/Ha.

Our Ausplow liquid delivery system offers the choice of 'deep banding' or 'with seed' or 'behind press wheel' placements.

This gives you the flexibility to deep band nitrogen and trace elements behind the digging blade or fungicides at seed placement or soil surfactants behind the press wheel.

Furthermore, the Patented Pro-D system provides for exceptional and reliable separation of seed and fertiliser products into the BIO-FURROW™ with uptake from the developing root systems.

To reduce the occurrence of double liquid feeding the BIO-FURROW™, the Ausplow precision liquid delivery system can have a sectional control added as an option.

By using optional dosing systems it is possible to use liquid fertilisers or water as a carrier for delivery of fungicides, trace elements and surfactants.

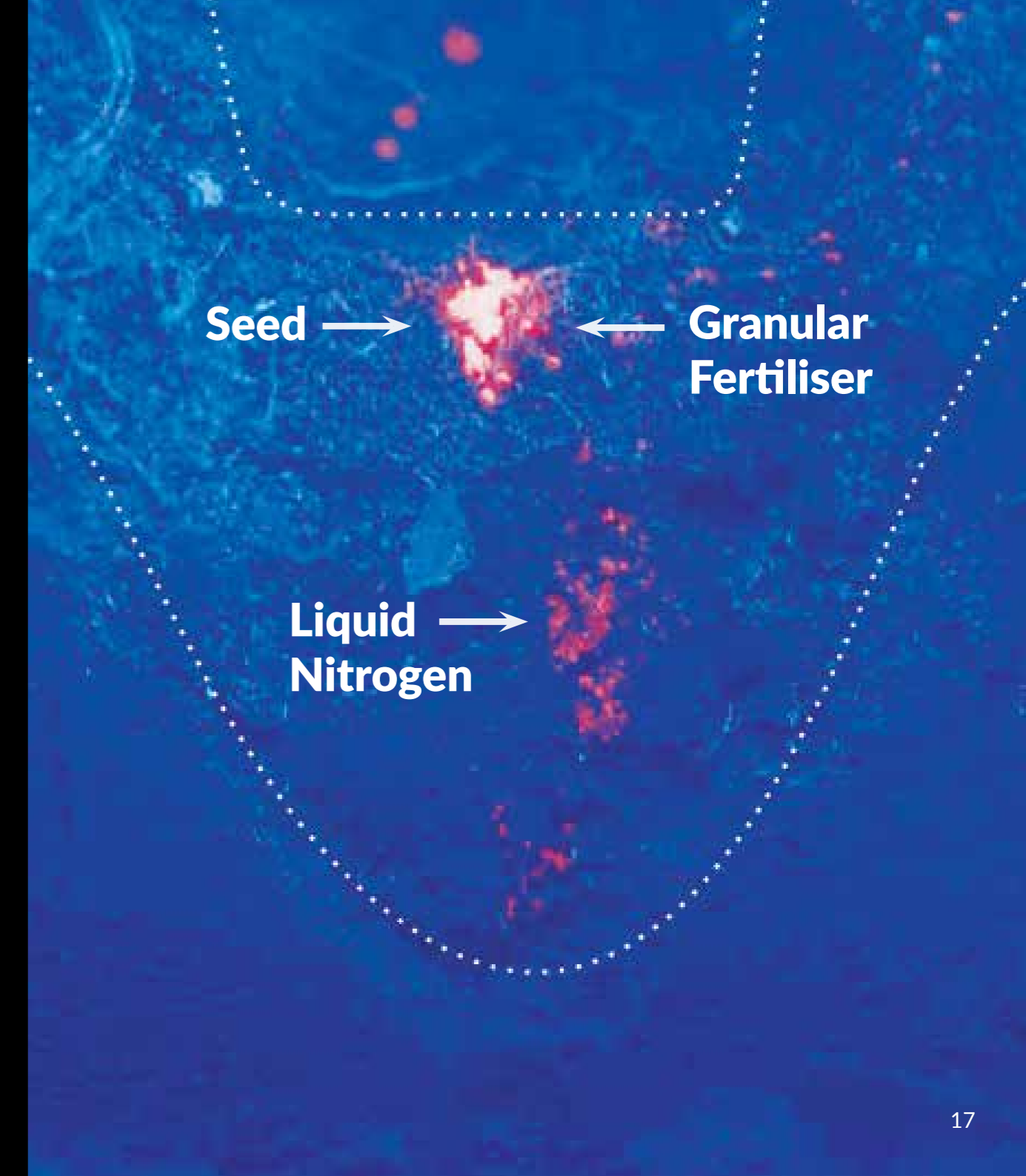
Filtration is achieved at the in-fill, suction and pre-delivery to the pump.

The spectrograph picture on the right clearly shows the placement of liquid with most profiling through the soil in the DBS "pot plant" BIO-FURROW™ ready to be accessed by plant root systems.

This method is possible because the DBS system achieves good underseed cultivation. In such an environment, a balanced mix of nutrients can be placed with the seed in the form of a starter fertiliser while the bulk of the fertiliser can be banded to feed developing root systems.

Seed → ← Granular Fertiliser

Liquid Nitrogen →





THE DBS CREATES  
HEALTHY AND EVEN  
GERMINATION

## DBS AUSEEDER

### D260 Series

Model	Wheels	Dig Width M / Ft	Engine Power Kw / Hp	Tpt Width M / Ft	Tpt Height M / Ft
<b>SINGLE FOLD</b>					
D260-32	6	8.32 / 27'04"	167 / 224	5.86 / 19'03"	3.31 / 10' 11"
D260-36	6	9.36 / 30'09"	188 / 252	5.86 / 19'03"	3.83 / 12'07"
D260-42	6	10.92 / 35'10"	219 / 294	5.86 / 19'03"	4.61 / 15'02"
D260-48N	8	12.48 / 40'11"	251 / 336	5.86 / 19'03"	5.36 / 17'07"
D260-48E	6 or 8	12.48 / 40'11"	251 / 336	7.42 / 24'04"	4.61 / 15'02"
D260-54	8	14.04 / 46'01"	282 / 378	7.42 / 24'04"	5.39 / 17'08"
<b>DOUBLE FOLD</b>					
D260-59	10	15.34 / 50'04"	308 / 413	6.75 / 22'02"	5.03 / 16'06"
D260-64	10	16.64 / 54'07"	334 / 448	7.42 / 24'04"	5.03 / 16'06"
D260-70	10	18.20 / 59'09"	366 / 490	7.53 / 24'04"	5.85 / 19'02"
<b>SINGLE FOLD (CTF SYSTEM)</b>					
D260-46N	8	12.00 / 39'05"	240 / 322	5.86 / 19'03"	5.36 / 17'07"
D260-46E	6	12.00 / 39'05"	240 / 322	7.42 / 24'04"	4.61 / 15'02"
D260-46E	8	12.00 / 39'05"	240 / 322	7.42 / 24'04"	4.61 / 15'02"



## D300 Series

Model	Wheels	Dig Width M / Ft	Engine Power Kw / Hp	Tpt Width M / Ft	Tpt Height M / Ft
<b>SINGLE FOLD</b>					
D300-32	6	9.60 / 31'06"	167 / 224	6.50 / 21'04"	3.57 / 11'09"
D300-36	6	10.80 / 35'05"	188 / 252	6.50 / 21'04"	4.17 / 13'08"
D300-40	6 or 8	12.00 / 39'05"	209 / 280	6.50 / 21'04"	4.63 / 15'03"
D300-44	8	13.20 / 43'04"	230 / 308	6.50 / 21'04"	5.40 / 17'09"
D300-46	8	13.80 / 45'03"	240 / 322	6.50 / 21'04"	5.53 / 18'02"
D300-49	8	14.70 / 48'03"	256 / 343	7.37 / 24'02"	5.60 / 18'05"
D300-51	8	15.30 / 50'02"	266 / 357	7.37 / 24'02"	5.90 / 19'05"
<b>DOUBLE FOLD</b>					
D300-50	8	15.00 / 49'02"	261 / 350	5.16 / 16'11"	5.16 / 16'11"
D300-55	8	16.50 / 54'02"	287 / 385	7.96 / 26'01"	4.69 / 15'05"
D300-60T	10	18.00 / 59'00"	314 / 420	7.65 / 25'02"	5.59 / 18'04"
D300-61	10	18.30 / 60'00"	301 / 427	7.96 / 26'01"	5.59 / 18'04"

## D381 Series

Model	Wheels	Dig Width M / Ft	Engine Power Kw / Hp	Tpt Width M / Ft	Tpt Height M / Ft
<b>SINGLE FOLD</b>					
D381-28	6	10.66 / 35'00"	146 / 196	6.57 / 21'07"	4.95 / 16'03"
D381-32	6	12.19 / 40'00"	167 / 224	6.57 / 21'07"	5.05 / 16'07"
D381-36	8	13.71 / 45'00"	188 / 252	7.24 / 23'09"	5.80 / 19'01"
D381-40	8	15.24 / 50'00"	209 / 280	7.24 / 23'09"	6.18 / 20'04"
<b>DOUBLE FOLD</b>					
D381-44	10	16.76 / 55'00"	230 / 308	8.27 / 27'02"	5.62 / 18'05"
D381-48	10	18.28 / 60'00"	251 / 336	8.27 / 27'02"	5.65 / 18'07"

Horsepower should not exceed 6Kw (8hp) per tine.

Specifications are nominal and subject to change.

Dimensions and power requirements are nominal and based on machines with standard 175mm (7") blades.

Transport height and width may exceed local limits and all machines are towed at owners risk.



## AIRSEEDER/MULTISTREAM

Model	Tanks	Tank Sizes (Litres)	Tyres	Auger	Drawbar Weight Kg (Full)
<b>DRAWBAR MOUNTED</b>					
A6000	2	2x3000	N/A	8"	3600
M6000	3	3x2000	N/A	8"	3900
<b>TOW BETWEEN</b>					
A9500	2	2x4700	24.5x32	8"	2400
A11000	3	2x4700 / 1x1500	24.5x32	8"	3000
M9000	3	3x3000	24.5x32	8"	3300
M12000	4	4x3000	30.5x32	8"	4900
<b>SERIES II</b>					
M14000	3	2x4700 / 1x4400	30.5x32 3M	10"	4800
M15000	4	2x4700 / 1x4400 / 1x1500	30.5x32 3M	10"	4900
M18000	4	2x 4700 / 2x4400	24.5x32 Duals	10"	3200
M19500	5	2x 4700 / 2x4400 / 1x1500	24.5x32 Duals	10"	3750
M22000	5	2x4700 / 3x4400	710/70Rx38 Duals	10"	1800
M24000	6	2x 4700 / 3x4400 / 1x1500	710/70Rx38 Duals	10"	2700
M27000	6	2x4700 / 4x4400	800/70Rx38 Duals	10"	4100
M28000	7	2x4700 / 4x4400 / 1x1500	800/70Rx38 Duals	10"	4350

Model	Tanks	Tank Sizes (Litres)	Tyres	Auger Kg (Full)	Drawbar Weight
<b>TOW BEHIND</b>					
A9500	2	2x4700	14.9x28(F)/24.5x32(R)	10"	N/A
A11000	3	2x4700 / 1x1500	14.9x28(F)/24.5x32(R)	10"	N/A
M9000	3	3x3000	14.9x28(F)/24.5x32(R)	10"	N/A
M12000	4	4x3000	24.5x32(F)/24.5x32(R)	10"	N/A
<b>SERIES II</b>					
M14000	3	2x4700 / 1x4400	24.5x32(F)/30.5x32(R) 3M	10"	N/A
M15000	4	2x4700 / 1x4400 / 1x1500	24.5x32(F)/30.5x32(R) 3M	10"	N/A
M18000	4	2x 4700 / 2x4400	30.5x32(F)/30.5x32(R) 3M	10"	N/A
M19500	5	2x 4700 / 2x4400 / 1x1500	30.5x32(F)/30.5x32(R) 3M	10"	N/A

Specifications and dimensions are nominal and subject to change without notice or obligation.

Quoted tank volumes are nominal and subject to manufacturing tolerances.

Quoted weights are approximate and subject to product densities and % bin fill.

Quoted weights include seed (SG 0.8), fertiliser (SG 1.0) and liquid 1 x liquid (SG 1.32).