AG Culture Product Book 2025

www.agculture.com.au

agculture

INTELLIGENT FARM SOLUTIONS

@ Agculture1

PROUD AUSTRALIAN SUPPLIERS OF:

S3 AWS AIRBAR

NEEDHAM Ag Technologies, LLC.

farmwave

OVER 60 YEARS IN BUSINESS ATOM-JET INDUSTRIES 1962-2023

rede

PROUD SOUTH AUSTRALIAN SUPPLIERS OF:

AGI WESTFIELD

ACTIVE™ AgriScience activeagriscience.com

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MEET THE TEAM



GAV WILSON - 0447 253 264

Gavin Wilson joined AG Culture Pty Ltd in 2018 as the General Manager.

Gavin brought with him extensive experience in agricultural sales and a vibrant personality. He is from a family farm at Balaklava and also worked for companies including John Deere and Bourgault Australia. His passion for the agriculture industry has always been because of the people and the culture.



ROHAN SCHILLING - 0487 280 199

Rohan joined the AG Culture Pty Ltd team in 2022 as Parts & Distribution, so he's the guy to pick, pack and post your parts but you might also see him at some Field Days too.

He has worked hard to gain considerable knowledge of all parts and machinery to enable him to help with enquiries and to ensure prompt distribution of the correct part. He's ready to turn around your orders quickly.



WADE STUART - 0455 155 299

Wade has joined our team in the role of Sales Consultant, bringing with him a genuine interest in the agricultural world that comes from past employment and experience. Known for a no-nonsense, customer-focused approach, Wade will work tirelessly to provide solutions that make a real difference, because he believes in supporting farmers with tools from our range that work as hard as farmers do.

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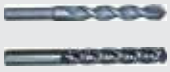
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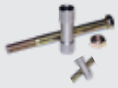
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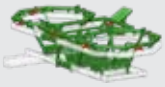
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End of an era (2000-2025)
- South Australian No-Till Farmers Association

For 25 years, SANTFA has successfully promoted the benefits of no-till farming systems and supported the adoption of sustainable technology.

AG Culture Pty Ltd was proud supporters of the South Australian No-Till Farmers Association (SANTFA) for nearly a decade and happy to help them reach their objective in converting over 90% of South Australian farmers from full till to no-till with the adoption of conservation farming practices.

V icNoTill

AG Culture Pty Ltd and Needham Ag Technologies are proud supporters of VicNoTill.

VicNoTill is all about bringing farmers together to support other farmers to grow better food and fibre by building soil biology through zero-till, regenerative systems. Our farming group, which formed in 2002, is dedicated to helping farmers achieve better results at harvest time, while encouraging greater adoption of sustainable and profitable food production systems through reduced-tillage and regenerative farming systems that produce nutrient-rich food.

Northern Sustainable Soils Group (NSS)

AG Culture Pty Ltd is proud supporters of the Northern Sustainable Soils Group (NSS).

The Northern Sustainable Soils Group (NSS) provides a platform for information sharing between farmers and researchers in the Northern Yorke Peninsula (NYP) region. The NSS facilitates a number of farmer education events each year including a mix of crop walk, bus tours and machinery demonstrations. The group also carries out research into district specific issues in the form of small plot and paddock scale research trials.

The NSS aims to ensure that farming business in the NYP continue to operate in a sustainable, productive and profitable manner into the future.

Buckleboo Farm Improvement Group

AG Culture Pty Ltd is proud supporters of the Buckleboo Farm Improvement Group.

The Buckleboo Farm Improvement Group, commonly known as Big Fig was formed 25 years ago and aims to validate the application of research results, new technologies and management strategies for the upper eastern Eyre Peninsula to speed up their integration and adoption into farming systems.

COMMUNITY SPONSORSHIP

Goolwa Port Elliot Football Club

AG Culture Pty Ltd is proud supporters of the Goolwa Port Elliot Football Club.

The club has a long history in the townships of Goolwa, Middleton and Port Elliot. A priority of the club is to develop junior and senior footballers and members, both male and female, into leaders and role models amongst the community.



NEW PRODUCT

Farmwave into Australia

Farmwave was founded in 2014 with a focus to put their advanced AI technology to practical use in agriculture. Farmwave is a harvest-loss monitor system. Cameras are mounted at pivotal points on a harvester. These cameras take photos every 3-5 seconds that are immediately analysed by software which reports real-time loss counts in the cab. The users know nearly instantaneously the location of the losses and can make adjustments to mitigate loss.

After reviewing results overseas, AG Culture brought the technology into Australia in 2023.

Full Harvester Kit

Monitor loss with the Full Harvester Kit which includes:

- Three cameras - one camera on either side of the header and one at the rear of the harvester
- Farmbook + Charger
- Power-Over-Ethernet Switch + Charger
- All Necessary Cables + Zip Ties
- Header Disconnect





Want to Mitigate Harvester Grain Loss?



NEW PRODUCT

Enquire today about Farmwave

Features include:

- Photos taken every 3-5 seconds that are immediately analysed
- Real-time loss counts reported in the cab
- Reduce crop waste nearly instantaneously using the data
- Farmwave can work while offline and auto-uploads data once connected
- Data can be exported into JSON format to use almost anywhere
- Farmwave can work with any make an model harvester



Active AgriScience Inc

Active AgriScience Inc was founded in 2013 and are a leading manufacturer of technologically advanced seed treatments, foliar plant nutrition and nitrogen management products. The patented protected technology behind their products helps improve yield potential and decrease environmental impact. Their nitrogen stabilisers protect your fertiliser investment by significantly reducing all forms of nitrogen loss from applied urea and UAN fertiliser.

Technology beyond the point of nutrition™

Active AgriScience Inc. supports the farming community by providing innovative, effective and economical products. A leader in plant nutrient and bioactive compound research and technology, Active AgriScience uses rigorous scientific methods to develop full cycle fertiliser and nitrogen management solutions to help enhance crop potential while being mindful of environmental impacts.

Active products into Australia

After witnessing the impressive yielding results in Western Australian trials in recent years, AG Culture started trials in South Australia in 2023.

In 2025, Long Seed and Grain Pty Ltd joined AG Culture as the South Australian Distributors of Active AgriScience products in South Australia.

Long Seed & Grain Pty Ltd

Long Seed & Grain have been in business for over 20 years and have a wealth of knowledge and experience. They are the South Australian State Manager for Advantage Grain, Grain Buyers, Vetch trader, SA Distributor for United Ag Products, and Redwood Rural Authorised Clear Grain Exchange Agents.

As of 2025, they are the South Australian distributors of Active Agriscience products.

Meet The Team



David Long - 0427 012 273

SA STATE MANAGER

Local to the great state, David has spent his 30-year career working around South Australia in various roles from primary production, grain accumulation and trading. A 6th-generation farmer, David has a passion for the grains industry, working with local communities and getting the best outcomes for growers in South Australia.



David Evans - 0437 176 280

SA ACCOUNT MANAGER

David lives and breathes agriculture and agribusiness. His extensive practical experience in the industry across roles in farm management, livestock marketing, rural training, grain marketing and advocacy together with a formal agribusiness qualification means he has a solid understanding of the issues faced by rural producers. His passion is helping farmers move forward and achieve their goals through the application of innovative solutions and technology in their business.

David believes strong relationships with customers are key to ongoing success.

Enquire today about Active STABILZER ™ PLUS

Active COPPER ™

FOLIAR-APPLIED MICRONUTRIENT



Agronomic Features

Active COPPER™ is a foliar-applied copper fertiliser solution that can alleviate copper deficiencies in crops. The copper in Active COPPER™ supports photosynthesis, structural strength, respiration, enzymatic processes, pollen virility, carbohydrate and protein metabolism.
Active COPPER™ supports:

- Photosynthesis
- Structural strength
- Respiration
- Enzymatic processes
- Pollen virility
- Flavour of fruits
- Carbohydrate & protein metabolism

Scan the QR code to view Active COPPERTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active ZINC ™

FOLIAR-APPLIED MICRONUTRIENT



Agronomic Features

Active ZINC™ is a foliar-applied zinc fertiliser solution that can alleviate zinc deficiencies in crops. Active ZINC™ contains zinc which is essential for plant enzymatic processes, including photosynthesis and the production of indoleacetic acid, affecting stem length and leaf size.
Active ZINC™ supports:

- Enzymatic processes
- Stem length, leaf size and overall yield
- Photosynthesis and production of indoleacetic acid

Scan the QR code to view Active ZINCTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

ACTIVE AGRISCIENCE N STABILIZER COMPARISON

N STABILIZERS	Active STABILIZER PLUS	ARM U 28% NBPT	ARM U 16% DMPP
DE SCR I P TI ON	A dual-action nitrogen saving technology that inhibits both ammonia volatilisation and nitrification/denitrification.	A liquid fertiliser additive that controls ammonia volatilisation from urea and urea ammonium nitrate (UAN) fertilisers.	A liquid additive for urea and UAN fertilisers that reduces nitrogen loss by inhibiting nitrification.
PATENTED	Yes	Yes	Yes
ANALYSIS	13% NBPT + 2.2% DMPP	28.6% NBPT	16.1% DMPP
COLOUR	Blue (see Note)	Blue (see Note)	Blue (see Note)
APPLICATION RATE (UREA)	2 L/MT	2 L/MT	0.6 L/MT
APPLICATION RATE (UAN)	1.5 L/MT	1.5 L/MT	0.35 L/MT
COMPATIBILITY	Can be mixed with other Active AgriScience stabilisers	Designed to allow ARM U NBPT and DMPP products to be easily mixed together as required for maximum flexibility to suit your needs.	Designed to allow ARM U NBPT and DMPP products to be easily mixed together as required for maximum flexibility to suit your needs.
ROLE OF THE PRODUCT	Reduces ammonia volatilisation, nitrate leaching, and nitrous oxide emissions.	Reduces ammonia volatilisation.	Reduces nitrate leaching and nitrous oxide emissions.
PRODUCT STABILITY IN DRUM	Contains pH buffered technology that stabilises the NBPT and/or DMPP and provides market leading product shelf life before application. Product shelf life is marginally better than the dual action product.		
PRODUCT STABILITY IN UREA	Formulation is designed to carry the NBPT and/or DMPP molecules into the urea granule making them more effective. Its pH buffering provides increased protection against the product degrading on contact with Urea.		
SHELF LIFE	Extended shelf-life		
AP P LI CATI ON	Product is a easy flowing solution formulated to provide excellent coating characteristics. Easily applied with all forms of coating equipment.		
DRYING CHARACTERISTICS	Our products are formulated to ensure the urea dries rapidly in normal conditions. They are equal or superior to all products in the market place		
HANDLING CHARACTERISTICS	Excellent flowability and coverage characteristics. Contains dust control features.		
PRODUCT RESEARCH	Technology is proven with third-party studies including studies conducted by the universities. Published data in peer reviewed journals		
STRESS TOLERANCE	Contains patented TSMC stress resistance, root stimulating and nutrient absorption technology.		
ACCURATE ANALYSIS	Analysis is accurately described on the product label to allow customers to know how much active is being applied.		
LOCALLY MANUFACTURED	All our products are made in Australia with premium components.		
NOTE	Contact with sunlight can result in the dye fading on the urea. This does not reduce the efficacy of the nitrogen stabilisers in the urea. This is maintained over the length of the season.		

Active STABILIZER PLUS ™ *DUAL-ACTION NITROGEN STABILISER*



Agronomic Features

Active STABILIZER™ PLUS helps prevent nitrogen loss from ammonia volatilisation, nitrification and denitrification processes, ensuring applied fertiliser is not wasted. Depending on a farmer's goals, Active STABILIZER™ PLUS gives farmers a choice: higher yield using the same amount of urea based nitrogen or same yield but using less urea based nitrogen.

- Addresses ammonia volatilisation and nitrification
- Patented formulation contains 12% NBPT, 2% DMPP
- Application 1.2-2.4L/MT of urea
- Longer nitrogen preservation



ECONOMICAL CHOICE

Less than a 1% yield advantage is all that is required with most applications before realising a return on investment.

VARIABLE APPLICATION RATE

Novel formulation provides a variable application rate allowing farmers to treat urea and urea-based nitrogen only as necessary while maximising their return on investment.

SUPERIOR COMPOSITION

Superior composition enhances coverage and spread-ability, penetration of active molecules, and handling qualities.

DUAL NITROGEN STABILIZER

Dual nitrogen saving technology inhibits ammonia volatilization and nitrification, significantly reducing fertiliser requirements.

Protect your nitrogen investment so it goes where it needs to go!

active STABILIZER PLUS

Scan the QR code to view Active STABILIZER PLUSTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active PRIME ™

PREMIUM SEED NUTRIENT DRESSING



Agronomic Features

Active PRIME™ contains nutrients needed for your newly seeded crop to get off to a strong start. Active PRIME™ is a seed coating that helps improve germination, boosts root growth, and protects seeds and seedlings from unfavourable environmental conditions.

- Rapid seed hydration
- Uniform seed germination
- Better root growth
- Increased seedling vigor
- Greater stress tolerance

Scan the QR code to view Active PRIMETM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active INFURROW ™

ESSENTIALS FOR INFURROW FEEDING



Agronomic Features

Active INFURROW™ is a seed nutrient and plant bio-activator package for infurrow application. This liquid starter contains essential nutrients and Active AgriScience's proprietary plant bio-activator specifically tailored to improve seed germination and early growth. Active INFURROW™ delivers nutrients directly to the root zone for faster and even germination, better root development and stronger plants.

- Rapid seed hydration
- Faster and even germination
- Better root growth
- Increased seedling vigor
- Greater stress tolerance
- Higher yield per plant

Scan the QR code to view Active INFURROWTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active PLS ™

SEED TREATMENT FOR LEGUME CROPS



Agronomic Features

Active PLS™ is a seed nutritional coating that supplies seeds with the micronutrients and trace elements needed to improve germination, early growth and the efficiency of Biological Nitrogen Fixation (BNF). Active PLS works synergistically with rhizobial inoculants to maximise BNF, leading to stronger plants and higher yields.

- Balanced PH for enhanced BNF
- Increased performance under stress conditions
- Adaptable product with a flexible application

active PLS PEAS LENTILS SOYBEANS

Scan the QR code to view Active PLSTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active BUILD ™

IN CROP GROWTH PROMOTER



Agronomic Features

Active BUILD™ provides the nutrients that young plants need to continue strong, healthy growth and overcome the stress caused by rapid growth, herbicides, and unfavourable environmental conditions. Roots continue to deepen, while stalks strengthen and foliage increases.

- Enhances rooting and photosynthetic efficiency
- Reduces herbicide stress Promotes stronger
- plants

active BUILD

Scan the QR code to view Active BUILDTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active GrainFILL ™

NUTRITION TO IMPROVE GRAIN SIZE AND WEIGHT



Benefits

Grain yield is determined by a combination of crop genetics, duration of the grain filling stage and nutrition during that stage. Active GrainFILL™ contains nitrogen, potassium sulphur, 12 amino acids and 3 vitamins that optimises grain size and weight.

- Enhanced grain filling duration
- Improved nitrogen remobilisation
- Reduces abiotic stresses
- Optimises grain size and weight

active GRAINFILL

Scan the QR code to view Active GrainFILLTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active PodFILL ™

SUPPORTING POLLINATION OF PULSE CROPS



Agronomic Features

Active PodFILL™ enhances pollen development and fertilization of peas, lentils, soybeans and other beans. It improves pollen hydration, germination, pollen tube growth and viability. Active PodFILL encourages bee foraging activity which increases fertilization.

- Enhances pollination and fertilisation
- Improves pollen formation, dissemination, germination and
- pollen tube growth
- Reduces pod abortion
  Improves yield

active PODFILL

Scan the QR code to view Active PodFILLTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

Active FLOWER ™

SUPPORTING PLANT POLLINATION



Agronomic Features

Active FLOWER™ provides nutrients, polyamines and organic acids that support and enhance plant fertility. It improves pollen hydration, germination, pollen tube growth and viability, and encourages bee foraging activity which increases fertilisation. Plants produce more fruit sets and an increased number of larger and uniform pods and seeds.

- Enhances pollination and fertilisation
- Improves pollen formation, dissemination, germination and
- pollen tube growth
- Reduces pod abortion
  Improves yield

active FLOWER

Scan the QR code to view Active FLOWERTM product webpage with label details, yield data, compatibility, SDS and independent 3rd party lab analysis.

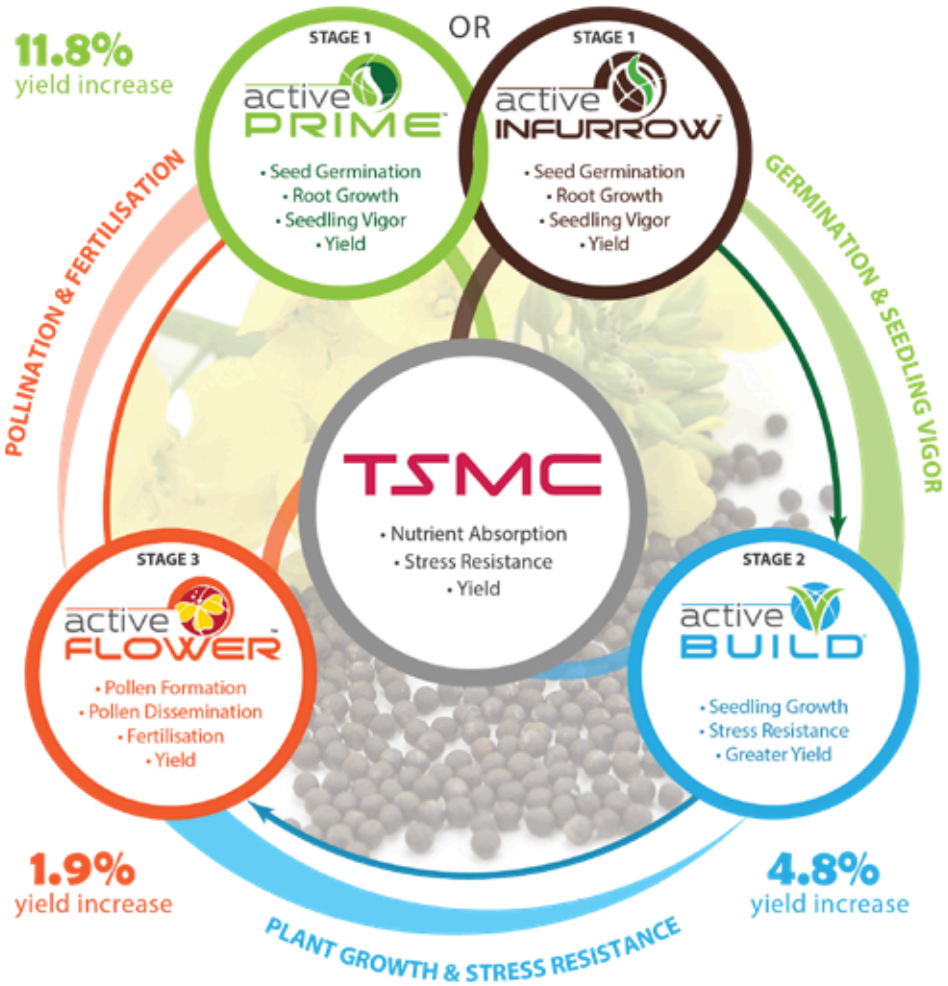


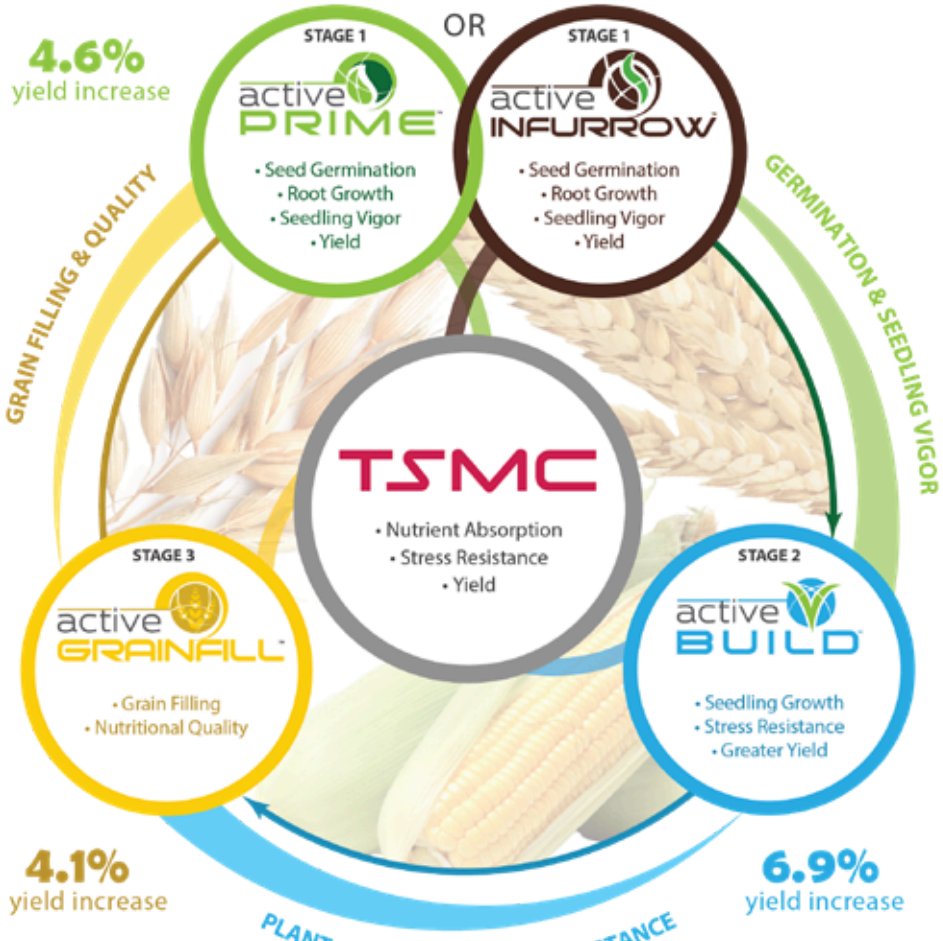
NUTRIENT PROGRAMS

Active AgriScience's nutritional cycle consists of products designed for each phase of the growing cycle. Application timing conveniently coincides with existing agrochemical applications such as seed, herbicide, fungicide, and insecticide treatments. Active AgriScience's field-proven technology can optimise yield, quality, and the genetic potential of the crop while improving the crop's ability to resist environmental stressors.

CANOLA

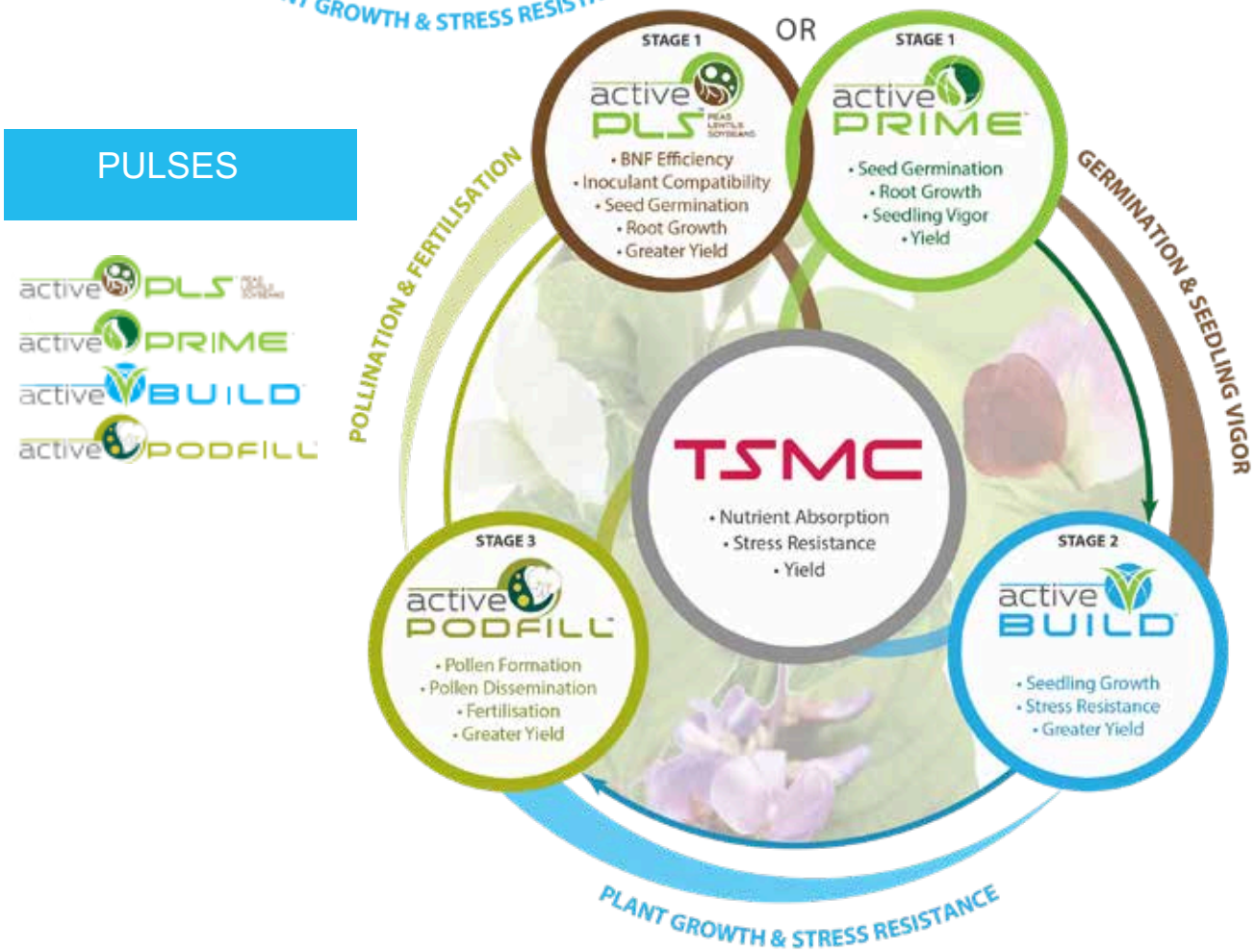
activePRIME
activeINFURROW
activeBUILD
activeFLOWER





WHEAT

active PRIME
active INFURROW
active BUILD
active GRAINFILL



PULSES

active PLS
active PRIME
active BUILD
active PODFILL

Reduce shatter-loss
Improve crop flow
Enhance operating efficiency



The AWS Airbar Concept

The AWS Airbar concept is to deliver a constant flow of air to the crop as it is cut off by the knife. The constant air flow ensures the crop is pushed into the harvester fronts reducing grain and seed loss at the point of the cutter bar. The constant air flow also reduces the reliance on the reel to actively feed crop material into the harvester, meaning the reel can be run at lower r.p.ms reducing mechanical fatigue.

S3 AWS Airbar into Australia

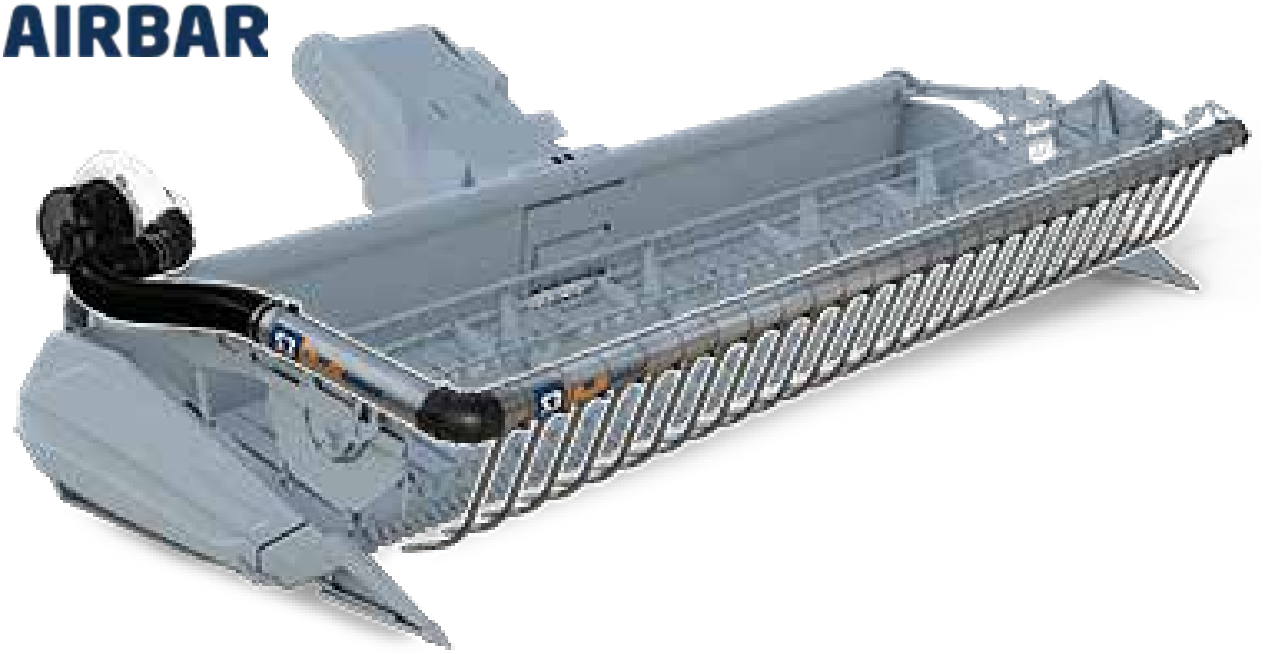
In 2008, AG Schilling & Co bought their first Airbar as a solution to excessive seed loss While on holiday in Canada in 2007 Mark Schilling was introduced to the AWS Airreel, manufactured by Temp Farm Equipment Ontario Canada, while on a “farmyard sticky beak”.

A few years later when needing a solution to excessive seed loss while harvesting sparse lentils crops in a marginal season, Mark recalled the airbar he had seen in Canada. The concept of being able to leave it fixed to his existing harvest front appealed, so he rang the manufacturer to source an Australian dealer. Being told that there was no dealer, and having the experience with Atom Jet Industries, Mark asked “can I be your sole Australian importer?” And there began the business relationship between AG Schilling & Co and Temp Farm Equipment, with importing, sales and service throughout Australia.

AG Schilling & Co expanded with a new company, AG Culture Pty Ltd, in 2018. In 2022 AWS Airbar joined the S3 Group of companies. Through the changes, the partnership and exclusive dealings with S3 AWS Airbar in Australia continues strong.

S3 AWS AIRBAR

more yield from your field
with air-assist harvesting



Using a high-powered air stream, the AWS Airbar increases the yield from your field by moving crops quickly from the knife and on to the header.

The benefits of harvesting with air can be witnessed across an array of crops such as soybeans, dry beans, lentils, chickpeas, poppy seeds, sorghum, grass seeds, canola and cereal crops.

Primary benefits

Improved feeding

The high-speed airflow keeps the cutting head clear and operating at maximum efficiency reducing equipment wear.

Reduced shatter loss

Air pressure keeps all loose product flowing into the feeder-house preventing these losses and increasing yields by as much as 4 bushels per acre.

Faster ground speed

Improving crop flow across the header, allows for substantial increases in ground speed.

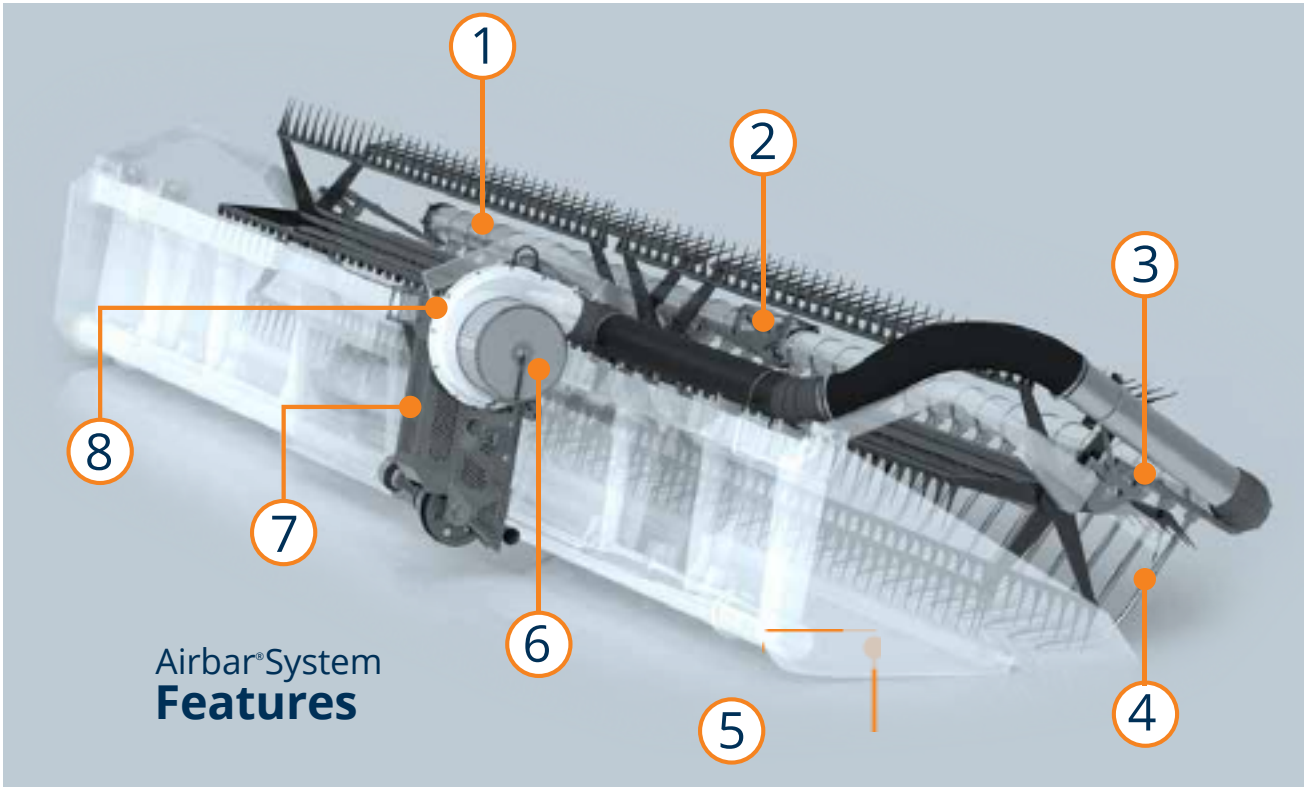
Increased operating eciency

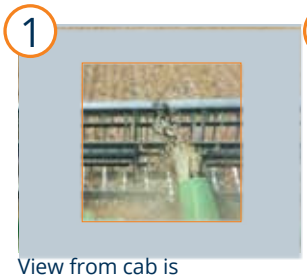
The S3 AWS Airbar creates a more even flow of material through the feeder-house by eliminating waste-material build up, increasing cutting and feeding efficiency, reducing knife and internal component wear and operating time.

S3 AWS AIRBAR

Kits available for ALL makes.

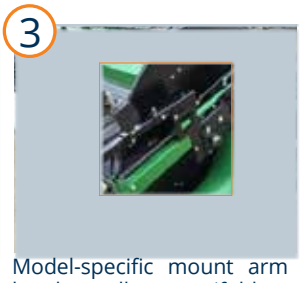
Custom units can be achieved with notice.

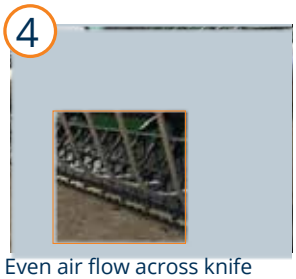


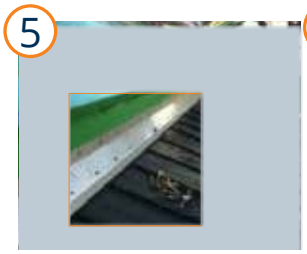
1

View from cab is unobstructed with the air manifold mounted directly in front of the reel.

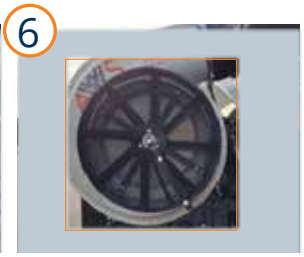
2

Adjust nozzle position on the fly using in-cab controls.

3

Model-specific mount arm brackets allow manifold to move with factory reel adjustment.

4

Even air flow across knife with equal length nozzles tailored to each header model.

5

Draper Brush, Sump Saver Stainless Floor Kits are available for a variety of headers.

6

Reduced trash intake with vertically mounted fan behind the header.

7

E cient, reliable and serviceable belt drive fan assembly.

8

Regulate air volume using in-cab controls.

Available Models

Custom units can be achieved with notice.

AGCO

- AGCO 300/500/800/8000 Series Header Mount Models
- AGCO 8200 Series Header Mount Models
- AGCO DynaFlex Series Header Mount Models

Case IL

- Case 3020 Single & Dual Drive Headers (After Jan 2017)
- Case 3020 Dual Drive Models (Pre 2017)
- Case 3162 Models
- Case 1020 Models (Pre 2016)
- Case 1020 Single & Dual Drive, Right Hand Models
- Case 2020 Series Header Mount Models
- Combine Mount Models

Claas

- Claas 750-900 Models
- Claas 1050/1200 Models
- Lexion 900F Models
- Lexion F535-F540 Models
- Claas Convio Flex

HoneyBee

- HoneyBee Airflex

MacDon

- MacDon FD2 Header Mount
- MadDon FD1 Header Mount
- MacDon FD70 Header Mount
- MacDon FD75 Header Mount

John Deere

- John Deere 600F Series
- John Deere Flex Draper Headers (600FD / 700FD / RD)
- John Deere Twin Fan (600FD / 700FD / RD**F)
- John Deere 900F Series
- Deere Hinged Draper (HD Series Header (HD**F / HD**R)
- Deere 600D / 700D Rigid Draper Headers
- Combine Mount Models

New Holland

- New Holland 73C & 74C Header Mount
- New Holland 740cf Dual Drive (Pre 2017)
- New Holland 740cf Header Mount (After Jan 2017)
- New Holland 880cf Header Mount

Ready to order?

Refer to page 91 of this book or download the pdf order form via this QR Code

S3 AWS AIRBAR

Airbar® System
Accessories

Draper Brush Kit

The S3 AWS Airbar Draper Brush Kit helps maintain consistent canvas tension during harvest. Debris is prevented from entering the rear canvas and building up on the drive rollers.

A stainless steel deflector and fine bristle brush provide the seal, reducing crop loss and header maintenance. Available for all popular draper models.





Sump Saver

S3 AWS Airbar Sump Savers are available for all MacDon and John Deere flex draper heads. A stiff brush fastened to the front of the stone sump (directly behind the knife), provides a smooth transition of crop flow onto the feed belt while allowing stones to drop down through the bristles and into the sump.

Floor Kits

The S3 AWS Airbar Floor Kit replaces the factory stone dam / floor with a low profile, stainless steel panel for improved feeding. The improved profile of these Floor Kits further enhance the performance of our proven Airbar Systems. Floor Kits are available for select Jone Deere, Case IH and New Hollands.





S3 AWS AIRBAR

Airbar® System
Accessories

Uptime Kit

...keep harvest on the move



The service life and reliability of the Airbar® System is unparalleled. For those moments of necessary maintenance or repair however, the Uptime Kit is always a great idea. Reduce downtime by always having common maintenance items on-hand. Airbar® Uptime Kits are available for all models of Airbar Systems.

Kit includes:

- **Primary Drive Belt**
- **Secondary Shaft**
- **Bearings & Flanges (4 sets)**
- **Nozzles & Gaskets (2 sets)**
- **Nozzle U-bolts (2)**

Driven by our desire to offer the best solutions and support to our customers, we're not just any choice for air assisted harvesting, we're your choice. We simplified the concept of adding air to combine headers and capitalizing on the benefits of air across a wide range of crops. We listen to our dealers and customers and use their feedback to ensure our S3 AWS Airbar continues to be the best solution available.

We take an active role in the agricultural sector and keep in touch with today's farming equipment, practices, and challenges. By using thoughtful, robust design, superior customer service, and solid reliability to connect our proven product, seasoned customers, & ourselves, we are best suited to meet your needs.

Have a question? Contact AG Culture for help.

Gav Wilson
0447 253 264
sales@agculture.com.au

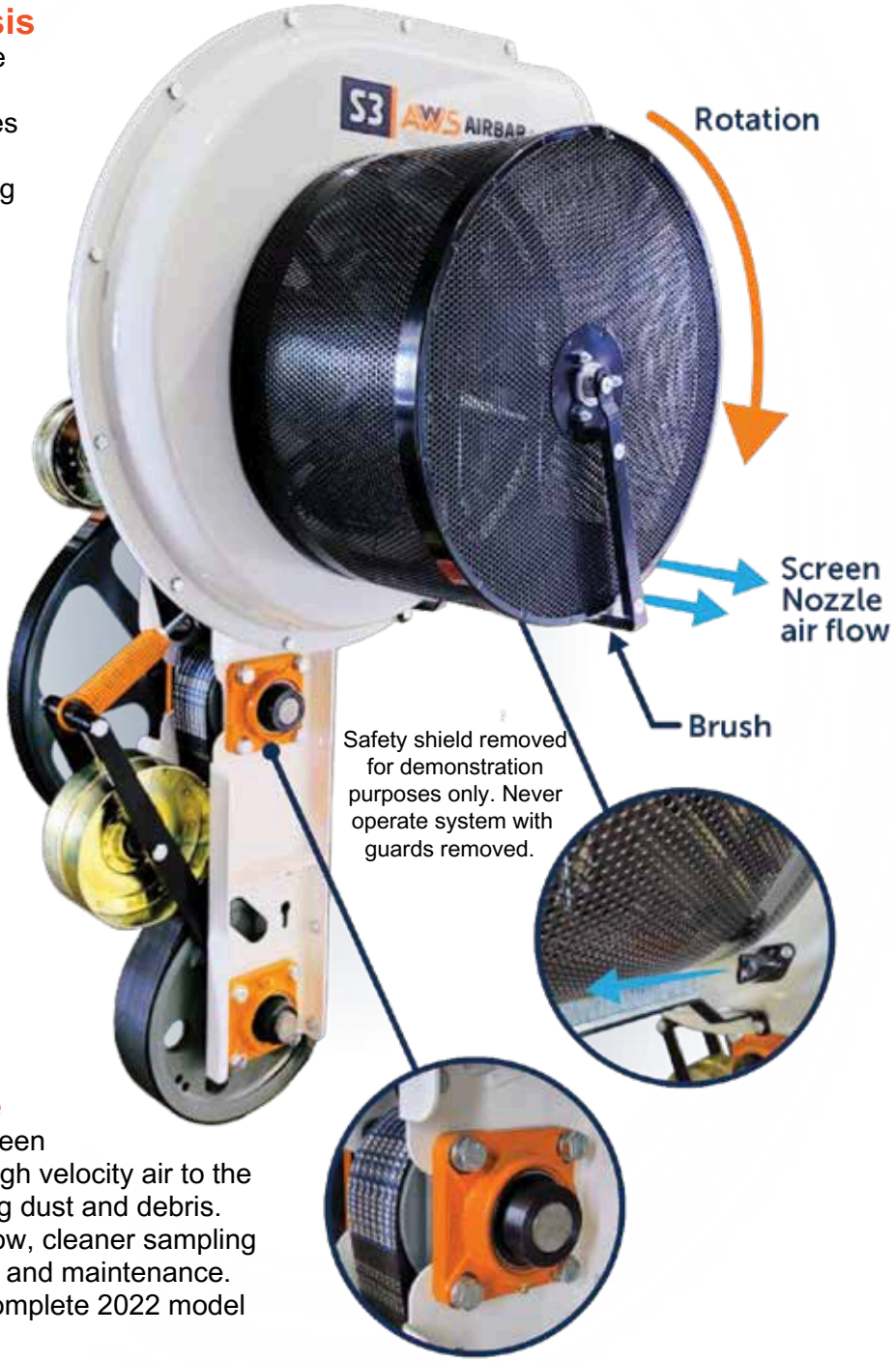
Fan & chassis

The fans on all Airbar Systems are powered by an easily accessible and high-efficiency belt-and-pulley drive system. The drive system was engineered to provide a straightforward way of transferring power without creating heat strain.

Fabricated from durable light weight materials, the fan is easily mounted and serviced and thesimple system design means low operational costs. All Airbar fan systems are built using industry standard components, that are easily accessible when needed.

Service Master Chassis

Now standard on all complete airbar systems, the updated Service Master chassis utilizes pillow block bearings and a drop in frame design, reducing overall service time by 70%.



Rotary-Screen Nozzle

New for 2022, the Rotary-Screen Nozzle supplies a steam of high velocity air to the rotary intake screen, removing dust and debris. This allows for improved airflow, cleaner sampling and reduced equipment wear and maintenance. This feature is standard on complete 2022 model year systems.



Ready to order?

Refer to page 91 of this book or download the pdf order form via this QR Code



Needham Ag into Australia

In 2010 the first Needham Ag Technologies components were imported into South Australia for AG Schilling & Co's farming operation and a small group of clients. Needham Ag Technologies provide agronomically proven products to assist farmers looking to increase their on-farm productivity. Their after market product range has been shaped around modifying farmers current seeding equipment to get them to optimise seed placement and seedling establishment. By 2017 AG Schilling & Co had secured a business relationship with Needham Ag Technologies principal Phil Needham and become the sole Australian importer.

In 2018, AG Schilling & Co expanded with a new company, AG Culture Pty Ltd and continue their exclusive dealing with Needham Ag Technologies.

Aust Disc Seeder Owners Group - share savings!

Join our Disc Seeder Owners' Group. AG Culture Pty Ltd offers our Aust Disc Seeder Owners Group access to discounted freight once a year. We are able to do this because we take advantage of cheaper sea freight rates and currency exchange by importing orders in bulk near the end of the season.

The components arrive onsite for farmers prior to next seeding. Orders can be collected from our facilities at Kadina, South Australia, or we can arrange freight to you via your preferred freight provider.

Becoming a member of our Aust Disc Seeder Owners Group doesn't cost anything and it is as simple as contacting us at sales@agculture.com.au and requesting to be added to the group. Order forms are sent out annually to members with notice of the next order deadline.

Ready to order?

Download the pdf order form via this QR Code

Important Elements of John Deere Single Disc Drills & Air-Seeders.

Spring Spacers

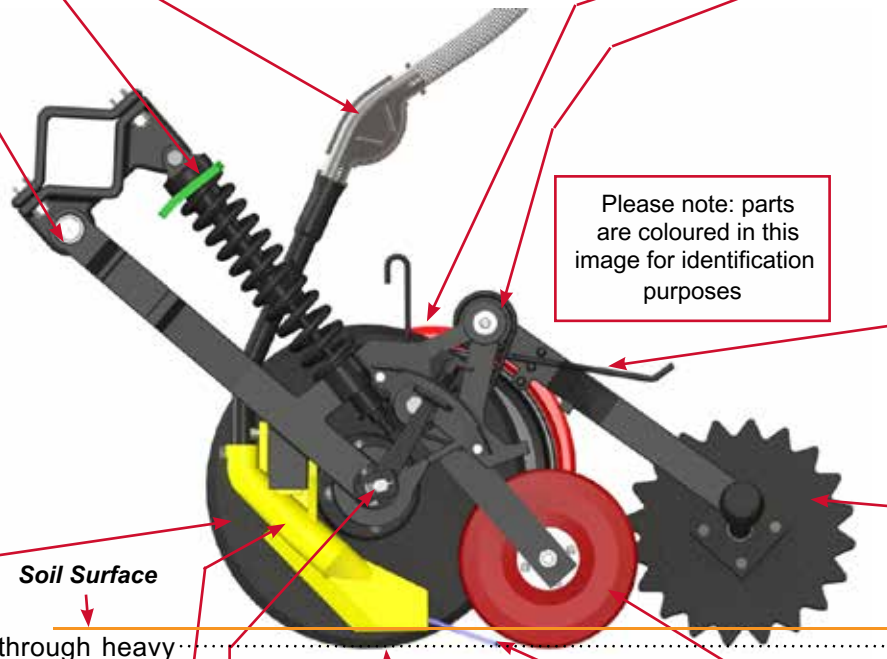
Adequate down pressure on every opener is essential for consistent soil and residue cutting and depth control, especially on rolling ground. Rotating the 4x4" rockshaft backwards increases down pressure, but once the frame starts to lift additional ballast must be added. Tractors and tow-between air-carts often leave depressions behind the wheel tracks which are more compacted, so they need extra down pressure (relative to all the other openers). This is achieved using spring spacers, see page 46 for more information.

Seed Brake

Seed bounce is a common problem for many air-seeders and its most likely to occur within the following examples. 1. When planting lighter seeds (such as canola, or cover crops with small seeds). 2. When placing fertiliser in-row with the seed, or within mid-row bands which both require higher fan speeds. 3. When using wider seeding equipment. One (or more) of these examples increase the risk of seeds being blown out of the seed slot, and the seed brake allows most of the air to evacuate through the housing, allowing seeds to fall to the ground by gravity, just like the older box drills. See page 48 for more information.

Main Opener Pivots

Tight pins and outer bushings are required to keep the opener running at a 7 degree angle. As these pins and bushings wear, the opener angle often decreases to 6 or even 5 degrees, which cause poor seed placement on account of the seed slot becoming too narrow, plus causing the firming and closing wheels not to track the seed slot. When total side to side play exceeds about 3/8" (measured at the back of the disc) the pins and bushings should be replaced. We have hardened pins and bushings available, see page 50 for more information.



Disc Blade

The disc must be sharp to consistently cut through heavy and/or tough residue and hard soils. For best results, they should be replaced when the sharp cutting edge becomes dull or when the disc drops below 17" in diameter, whichever comes first.

We now have Forges De Niaux 200 disc blades, with a core hardness which is around 10% harder than competitive disc blades on the market. See page 44 for more information.

Seed Boot

The seed boot condition and the amount of play in the mounts all have a big impact on seed placement. Once the seed boots begin to get paper thin at the bottom and wear upwards, they need replacing. If you have more than about 3/4" of total up/down travel within the seed boots (measured at the back of the seed boot), we have patented seed boot bushings which eliminate most of the up/ down travel. For more information on seed boots and seed boot bushings, please see page 39-40.

Gauge Wheel Axle, Depth Arm, Cover And Spindle

As acres accumulate on drills and air-seeders (especially when working in dry/hard soils without sufficient ballast), the factory gauge wheel arm can wear around the gauge wheel axle, plus the handle often rattles within the cover, wearing out the pegs and slots. We now have all these parts available, and they all offer a longer life than OEM parts (heavier materials and/or thicker). More information on these parts is contained on pages 52-53.

Gauge Wheel

When the down pressure is adjusted correctly, the gauge wheel should remain in constant contact with the soil surface to maintain a consistent seeding depth and minimize wear on the gauge wheel axle. Ideally, the gauge wheel can be turned with firm force when the seeder is stopped in the ground, but be aware that as John Deere drills and air-seeders are pulled forward, weight is transferred from the back to the front. Narrow gauge wheels are preferred in no-till environments, especially into corn stalks because they maintain depth more consistently, especially within heavy corn residue. See 32 for more information.

For more information on rebuilding a John Deere drill or air-seeder, please scan the QR code below.

YouTube

Closing And Firming Wheel Arm Bushings

To make sure the closing wheel runs at a consistent position alongside the seed slot (which maximizes closing action), it is essential that the closing wheel arm bushings are tight. We suggest replacing the closing wheel arm pins and bushings once the closing wheel has 1" of total side to side play, when measured at the rear of the closing wheel arm (1/2" either way). We have a hardened steel pin together with poly outer bushings, plus seals to keep the dust out. This combination doesn't need to be greased, in fact in dusty conditions we have found they last longer without grease (grease mixes with the dust and accelerates wear and seizing problems).

You can tolerate more play within the firming wheel arm assembly as it still follows the seed slot even with a worn pin and bushings, however the pivot points tend to wear very quickly once there is approximately 1/2" of total play measured at the back of the firming wheel arm (1/4" either way). For more info see pages 48-49.

Closing And Firming Wheel Arm Springs

As acres accumulate on the John Deere single disc openers, the firming and closing wheel arm springs wear within the coiled loop. This wear over time causes them to reduce tension and eventually break. We have firming and closing wheel arm springs available and they feature increased side tension to help keep the arm retained within the pegs. For more information visit page 51.

Closing Wheels

Factory cast closing wheels perform to a satisfactory level in most drier conventional soil conditions, but they often struggle to close the slot consistently within moist no-till conditions, especially when covered with heavy residue. We have evaluated many different wheel thicknesses and tooth profiles and have found the 1/2" thick crumbler wheel offers the best combination of seed to soil contact and slot closure across a wide range of soils and soil moistures. The 1/2" thick wheel is wide enough to stay on top of loose dry soils, compared to thinner wheels which can descended too far into the soil and throw seeds out. The rounded teeth around the wheel also significantly reduce bouncing compared to the factory closing wheels, which helps provide more consistent slot closure across the field. See page 43 for more information.

Bonilla Seed Tab

The Bonilla Seed Tab is thicker than factory and other after-market tabs, which helps hold more seeds within the seed slot. While the Bonilla Seed Tabs are most beneficial on air-seeders, they also help retain more seeds in the seed slot when fitted to box drills (especially in high residue no-till conditions). Our Bonilla Seed Tabs are built to match the shape of the seed slot when new and have often been found to last up to last up to 3 times longer than the John Deere 90 series seed tabs. See page 38 for more information.

Firming Wheels

This is a very important part of any disc drill or air-seeder, especially when planting into marginal soil moisture conditions, where a firming wheel can make the difference between getting a stand or not. There are two major functions of a seed firming wheel: 1) Pressing seeds down into the bottom of the seed slot to achieve a consistent seeding depth. 2) Imprinting seeds into the bottom of the seed slot (preferably into moisture) to help obtain uniform germination and emergence. We have seen examples where a seed firming wheel was removed and poor emergence resulted, compared to adjacent rows with firming wheels which had a stand. See page 43 for more info.

Part: Bonilla Seed Tabs for 50 and 90 Series Box Drills and Air-Seeders



Benefits

- Almost twice as thick as the 90 series seed tabs.
- Specially tapered to match the shape of the seed slot.
- Long seed tab to extend working life.



Important

- To mount the Bonilla Seed Tab on a John Deere 90 Series extended wear seed boot, you will need the longer **stainless steel bolt** and **U Shaped Clip** shown to the left (Bonilla Seed Tabs will fit on all other 50 and 90 series boots with existing factory bolt).

Scan the QR code to see how the Bonilla Seed Tabs can retain more seeds in the seed slot. This can help you increase the number of plants established, or reduce your seeding rates.

YouTube

Part: Bonilla Seed Tabs for John Deere ProSeries Seed Boots



Benefits

- Almost twice as thick as the tapered ProSeries seed
- tabs.
- Specially tapered to match the shape of the seed slot. Long seed tab to extend working life.



Important

- To mount the Bonilla Seed Tab on a ProSeries seed boot, you will need the longer **stainless steel bolt** and **U Shaped Clip** shown to the left.

Narrow ProSeries Seed Boots can plug when planting large seed

Scan the QR code to watch Needham Ag's evaluation and comparison video of the John Deere ProSeries Opener.

YouTube

Extended Wear Needham Ag Seed Boots for John Deere 50, 60 and 90 series

Benefits

- Extended wear seed boots are pre-drilled for the bushings.
- Installation includes inserting the bushings into the seed boot, align the seed boot against
- the disc and finally torque the nut on the bolt. No drilling is required.
  The seed boot then pivots towards and away from the disc on the seed boot bushings.

Part: Extended Wear Left and Right Needham Ag Seed Boots for John Deere 60 and 90 series box drills and air-seeders



Important - Seed Boot Bushings Kit (pg38) are required to mount our Seed Boots.

- NA90L - replaces John Deere part number N284045 or N284025
- NA90R - replaces John Deere part number N284044 or N284024

Part: Extended Wear Left and Right Needham Ag Seed Boots for John Deere 50 series box drills and air-seeders



Important - Seed Boot Bushings Kit (pg40) are required to mount our Seed Boots.

- NA50R - Replaces John Deere part number AN280316 (extended wear R with carbide tiles) or N280446 (standard wear R).
- NA50L - Replaces John Deere part number AN280317 (extended wear L with carbide tiles) or N280447 (standard wear L).

Needham Ag Seed Boots

Scan the QR code to learn more about Needham Ag's Seed Boots.

YouTube

Needham Ag Seed Boot Bushings for John Deere 50, 60 and 90 Series

Benefits

- Needham Ag Seed Boot Bushings are manufactured from a high grade, heat treated stainless steel material providing excellent durability characteristics and long life. Bushing kit
- won't corrode and seize in place. Seed Boot Bushings are
- pulled tight against the arm so boot pivots around the
- bushings. Allows growers to move the boot to the lower hole (often required when seeding a lot of small seeds).

Part: Seed Boot Bushing Kits for John Deere 50 series box drills and air-seeders



Includes

- 2 x 50 series hardened stainless steel bushings
- 3/8" grade 9 bolt
- 3/8" grade 9 lock nut.

Part: Seed Boot Bushing Kits for John Deere 60 series box drills and air-seeders



Includes

- 2 x 60 series hardened stainless steel bushings
- 7/16" grade 9 bolt
- 7/16" grade 9 lock nut.

Part: Seed Boot Bushing Kits for John Deere 90 series box drills and air-seeders



Includes

- 2 x 90 series hardened stainless steel bushings
- 7/16" grade 9 bolt
- 7/16" grade 9 lock nut.

How to install bushings?

Scan the QR code to watch how to install Needham Ag's Seed Boot Bushings.

YouTube

Part: Carbide tipped 0.635” drill bit (2 serrated carbide)



Benefits

- These custom made drill bits feature 2 x serrated carbide cutting teeth and 3 flats to stop them spinning in the chuck and they typically drill around 8-12 x 90 series extended wear seed boots or around 50 standard wear seed boots.
- A heavy drill press (or preferably a mill) is required to eliminate all vibration.

Part: Solid Carbide 0.635” drill bit (4 cutting teeth)



Benefits

- These custom made bits feature 4 cutting teeth and 3 flats to stop the bit spinning in the chuck. They typically drill around 100+ x 90 series extended wear seed boots.
- A heavy drill press (or preferably a mill) is required to eliminate vibration.

Part: Heavy Duty U Shaped Boot Springs for John Deere 50/ 60/ 90/ ProSeries box drills and air-seeders



Benefits

- Slightly thicker and stronger than the factory John Deere springs.
- Zinc coated to help prevent corrosion over time.

Ready to order?

Download the pdf order form via this QR Code →

Part: PEER® SEEDXTREME 5203 Bearings



Benefits

- It's a direct replacement for standard 5203 bearings to
- significantly extend their life (especially in dusty conditions).
- Features 6 seals at each end.
  Fits most gauge wheels and closing wheels that use a 5/8" or 16 mm mounting bolt.

Dimensions

Inside diameter:	0.64" (16.256 mm)
Outside diameter:	1.574" (40 mm)
Width:	1.737" (44.12 mm)

Part: 16" Spoked Narrow Gauge Wheel Assembly with 3" Wide Long-Life Urethane Tyre and PEER® SeedXTreme Bearing



Benefits

- The spoked gauge wheels have a large open area to allow mud to escape, when seeding into higher moisture soils.
- Heavy duty ductile iron triple spoke center with
- stainless steel nuts and bolt.
- Includes PEER® SeedXTreme 5203 bearings. Fits all John Deere single disc openers and most other drills and planters which use 16" diameter gauge wheels which are mounted with a 5/8" or 16mm bolt.

Scan the QR code to watch Needham Ag durability test the spoked narrow gauge wheel assemblies across rocks at 8 mph. They used full down-force and removed the disc blade to ensure the gauge wheels had maximum impact.

YouTube

Part: Assembled V8 Firming Wheels (Urethane Tyre) for John Deere 50/60/90 / ProSeries, plus Case-IH SDX air-seeders



Benefits

- Features a flexible green urethane tyre to significantly extends the service life beyond rubber tyres.
- Long-life PEER® SeedXtreme bearings

Scan the QR code to watch Needham Ag's V8 Firming Wheel video.

YouTube

Part: Martin 20 Point Crumbler Wheels for 60, or 90 Series John Deere drills/air-seeders



Benefits

- 1/2" thickness for better slot closure.
- Very wear resistant T1 (military armor grade) steel that is heat treated
- Includes all mounting hardware to couple to the original 60/90 series John Deere closing wheel arm (shown in images left and below).

The image right shows a 60' wide John Deere 1890 equipped with the Martin 20 Point Crumbler Wheels, in addition to the Needham Ag 18" Disc Blades, Spoked Narrow Gauge Wheels, Bonilla Seed Tabs and V8 Firming Wheels.



Ready to order?

Download the pdf order form via this QR Code →

Part: 2 3/4 x 16” Narrow Gauge Wheel Assembly - includes Long Life Urethane Tyre



Benefits

- Almost half the width of a standard 4 1/2” gauge wheel, which
- allows improved ground following and better depth control
- Features urethane tyres, a material which significantly
- improves service life compared to rubber.
  Designed for no-till but can be used in conventional soils.
  Includes 5/8” ID spacers with each gauge wheel.

Compatibility

Fits all John Deere single disc seeders, Case-IH SDX and Precision Disk 500/500T and New Holland 2080/2085 air-seeders and most corn planters that utilize a 5/8” or 16mm mounting bolt.

Part: Replacement urethane tyres for above 2 3/4” x 16” Narrow Gauge Wheels



Please Note:

They do not fit John Deere narrow gauge wheels.

Part: Forges De Niaux 200 - Extended Wear Disc Blades for John Deere 50/ 60/ 90 / ProSeries box drills and air-seeders



Benefits

- This new disc provides improved life with better sharp cutting edge retention. This is especially important when seeding into hard soils covered in heavy, tough residue, while maintaining flexibility to resist breakage in rocky conditions.
- Made in France by Forges De Niaux, a company with 5 generations of manufacturing, using high quality materials, automated processes and sound quality control.

Scan the QR code to watch Needham Ag test the durability of Forges De Niaux 200 Disc Blades.

YouTube

Part: Disc Mount Locknuts & Bolts (Grade 8 - 50pk) for 90 Series Opener ONLY



Benefits

- Drills and air-seeders prior to the John Deere ProSeries came with grade 5 carriage bolts, grade 5 flange lock nuts and a washer.
- To securely mount our disc blades to the John Deere hubs, we recommend 3/8 x 1” long, grade 8 carriage bolts with serrated flange lock nuts.
- Sold in bags of 50 nuts and bolts.

Important - Torque nuts to 35 ft-lb with torque wrench.

Part: Needham Ag Firming Wheel Arm for John Deere 60, 90 Series and ProSeries



Benefits

- Heavy duty laser cut, steel firming wheel arm for the 60, 90 and ProSeries drills and air-seeders.
- Replaces John Deere part number N282115.

Dimensions

- Powder coated and measures 14 1/4” long, 2” tall, 1/2” thick, with 2 x 5/8” holes on 11 3/4” centers.

Part: 18” INGERSOLL Disc Blade for John Deere 50, 60, 90 and ProSeries



Benefits

- The Ingersoll 18″ flat disc blades are a cost effective replacement for the John Deere factory discs. They are slightly harder than the John Deere factory discs and offer a sharp cutting edge.
- These discs are 18″ in diameter and 0.2″ thick.

Ready to order?

Download the pdf order form via this QR Code →

Part:
Spring Spacers for 50 series John Deere openers



Part:
Spring Spacers for 60 / 90 / ProSeries John Deere openers



Needham Ag Spring Spacers for John Deere Drills And Air-Seeders

Benefits

- Spring spacers are easily installed within the spring assembly and they increase the opener down pressure by 80-90 lb.
- Depressions caused by tractor or tow between air-cart tyres cause openers to descend downwards. When the openers descend, spring pressure is reduced in rows where it should actually be increased to maintain seeding depth within the denser areas of the field.

Join the Aust Disc Seeder Owners Group - share savings!

Join our Disc Seeder Owners' Group. AG Culture Pty Ltd offers our Aust Disc Seeder Owners Group access to discounted freight once a year. We are able to do this because we take advantage of cheaper sea freight rates and currency exchange by importing orders in bulk near the end of the season.

The components arrive onsite for farmers prior to next seeding. Orders can be collected from our facilities at Kadina, South Australia, or we can arrange freight to you via your preferred freight provider.

Becoming a member of our Aust Disc Seeder Owners Group doesn't cost anything and it is as simple as contacting us at sales@agculture.com.au and requesting to be added to the group. Order forms are sent out annually to members with notice of the next order deadline.

Needham Ag Stainless Steel Seed Tubes for later model air-seeders



Benefits

- Made in USA from high quality stainless steel, which will eliminate the rust/corrosion issues associated with steel seed tubes.
- Simplified connection between the new stainless steel seed tube and the 1” ID seed hose which feeds it by using a 5” piece of heavy duty 1 1/4” ID hose and two hose clamps.
- In the event of a seed boot plugging, it will be much faster and easier to remove the seed hose to clean them out.

Compatibility

John Deere 1860, 1890, 1990 and 1895 air-seeders, in addition to the new N500 ProSeries introduced in 2018.

Part: NA72825 Straight Stainless Steel Seed Tube

- NA72825 - replaces John Deere part number A72825

Part: NA81406 RH Angled Stainless Steel Seed Tube

- NA81406 - replaces John Deere part number A81406

Part: NA81407 LH Angled Stainless Steel Seed Tube

- NA81407 - replaces John Deere part number A81407

Part: Grade 8 Seed Tube Bolts for 50, 60, 90 and ProSeries Seed Boots



Benefits

- Needham Ag 3/8” Seed Boot Bolts are the same dimensions as the OEM versions, but they are made of a high quality grade 8 material, plus the threads are coated with an anti-seize material to help stop the threads rusting in place (common on OEM openers, especially when using fertiliser).

Part: 1 1/4” Seed brakes for John Deere 50, 60, 90 series and ProSeries air-seeders



Benefits

- Excellent durability with a 1 mm thick stainless steel housing. Also features 2 mm holes which allows sowing of small seeds (including most cover crops).
- Designed for disc type air-seeders to reduce seed bounce and help prevent seeds being blown out of the seed slot.
- Suitable for standard 1 1/4” outside diameter seed hoses, common to John Deere and Case-IH air-seeders.
- Seed Brakes feature an inner downward angled baffle, which helps reduce seed velocity and seed bunching.

Part: Firming Wheel Arm Bushing Kit for John Deere 60 and 90 series openers



Includes

- 2 x 1” ID Poly Bushings
- 2 x 1” ID Triple Lip Seals
- 1 x Firming Wheel Arm Pin (1” OD x 2.38”)
- 1 x 5/8” Grade 8 Flange Lock Nut
- 1 x 1” ID Grade 8 Washer (0.06” Wide)

Benefits

- Pins are made from high quality heat treated steel, with high hardness value (+/- 60, measured on the Rockwell C scale). These pins are also precision ground for maximum smoothness and minimum friction.
- The yellow poly bushings don’t require greasing because they incorporate teflon, which
- acts as a lubricant to lower the friction around the firming wheel arm pins.
- The yellow poly bushings are easy to install and don’t rust in place.
- 2 x seals per row to help keep dust and moisture out of the firming wheel pivots.
- 1” ID grade 8 washer included to help remove the side to side play created by the firming wheel arms rubbing against the top housings.
  New grade 8 - 5/8” smooth flange lock nut to hold the assembly tight after the existing ones have been installed and removed.

Firming Wheel Arm Bushing

Scan the QR code to learn more about Needham Ag’s Firming Wheel Arm Bushing.

YouTube

Part: Hardened Closing and Firming Wheel Arm Bushing Kit Installation Tool



Benefits

- Helps remove the old bushings and install the new poly bushings, and seals.
- It is also designed to help clean out the firming and closing wheel pivot housings, and comes standard with tapered socket in the head for use with a 1/2” tip on an air-hammer.

Part: Stainless Steel 1.5” Brush



Benefits

- This 1 1/2” diameter brush is designed to help clean out the firming & closing wheel housings, once any excess material is removed with the installation tool (above). Installs in a 1/2”
- drill chuck.

Part: Closing Wheel Arm Bushing Kit

For John Deere 50 series (after Serial number 6000) and all 60 and 90 series openers.



Part: Firming Wheel Arm Bushing Kit



For John Deere 60 and 90 series openers.

Closing And Firming Wheel Arm Bushing Kits For John Deere Drills and Air-Seeders

Benefits

- Our yellow poly bushings don’t require greasing because they incorporate teflon, which acts as a lubricant to lower the friction around our smooth, precision ground closing and firming wheel arm pins.
- Based on results from 7+ seasons, including on high acre per row openers in dusty conditions. We have found their life matches or exceeds factory closing wheel and firming wheel arm bushings without lubrication and no seizing up problems have been reported (unlike the steel bushings).

Ready to order?

Download the pdf order form via this QR Code

Part: Main Opener Arm Pivot Repair Kit for 50, 60, 90 and ProSeries



Includes

Everything needed for one row as shown left:

- 1 x main opener arm pin
- 2 x outer bushings
- 1 x thrust washer

Benefits

- Service life matches or exceeds OEM pins and bushings.
- The main opener arm pins are made from a very hard, heat treated material that's
- precision ground for very tight tolerance and consistency.
  Each pin features a chamfer on each end to aid with its installation. This is especially helpful when trying to install the pins with the openers still mounted to the drill or air-seeder.
- The main opener arm pins feature a socket to aid with their install and removal.
- Our hardened and heat treated outer bushings provide a very long service life and are
- easy to install with our installation tool (shown below).
  Washers are included to help eliminate the side to side play in the opener mounting points.

Scan the QR code to learn more about Needham Ag's Main Opener Arm Pin and Outer Bushings.

YouTube

Part: Hardened Main Opener Arm Bushing Removal and Installation Tool



Benefits

- Hardened installation tool to help remove the old outer bushings, plus help align and install the new ones.
- It features a socket in the top of the tool to allow for the use of an air-hammer with a 1/2" punch.

Needham Ag Closing and Firming Wheel Arm Springs for John Deere Drills and Air-Seeders

- Increased spring tension against arm pegs, compared to factory springs, to help ensure the spring remains engaged within the pegs.

Left Firming Wheel Arm Spring for John Deere 60 & 90 Series



Part: FWSR
Right Firming Wheel Arm Spring for John Deere 60 & 90 Series



Part: CWS90L
Left Closing Wheel Arm Spring for John Deere 60 & 90 Series



Part: CWS90R
Right Closing Wheel Arm Spring for John Deere 60 & 90 Series



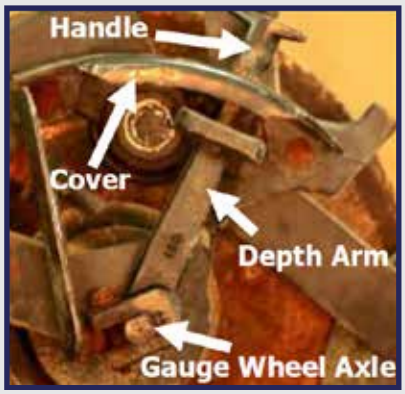
Ready to order?

Download the pdf order form via this QR Code →

Needham Ag Depth Adjustment Parts for John Deere 60, 90 and ProSeries Drills and Air-Seeders

Scan the QR code for more information on Needham Ag's depth adjustment parts.

YouTube



Part: Needham Ag Depth Adjust Cover



Benefits

- Interchanges with the John Deere handle and depth adjust arm. Same hole layout and same number of adjustment slots as the John Deere OEM cover.
- 25% thicker material than OEM cover, and manufactured from heavier duty material for longer life.
- Replaces John Deere part number N283120, which fits all 60, 90 and ProSeries John Deere openers.

Part: Needham Ag Depth Adjust Handle



Benefits

- Interchanges with the John Deere cover and depth adjust arm.
- Heavier duty design than OEM, for easier depth adjusting and longer life.
- Replaces John Deere part number NN282710, which fits all 60, 90 and ProSeries John Deere openers.

Part: Needham Ag RH and LH Spindle With Triple-Lip Seal Installed





Benefits

- Interchanges with the John Deere Depth Adjust Axle and Depth Adjust Arm.
- Heavy duty assembly replaces John Deere part numbers AN282118 (RH) and AN282119 (LH) on John Deere 60, 90 and ProSeries openers.
- Each spindle comes complete with high quality triple lip seal to help keep dust out of the assembly over time (much better than the OEM rubber O-ring).
- Yellow zinc coated to minimize corrosion over time.

Part: Needham Ag Gauge Wheel Axle



Benefits

- Interchanges with the John Deere depth arm.
- Heavy duty assembly replaces John Deere part numbers N282117, AA92485 and AA73951, which fit all 60, 90 and ProSeries John Deere openers.
- Dust cap is welded all around to help keep dust and
- moisture from entering the inside of the dust cap.
- Maintains the OEM milled area on the outside of the axle
- to help with lubrication along the axle.
- Includes grease zerk.
  Yellow zinc coated to minimize corrosion over time.
  Allows around 1/8” of additional adjustment of the gauge wheel towards the disc (to help keep mud out over time).

Part: Needham Ag Depth Arm



Benefits

- Interchanges with John Deere OEM gauge wheel axle, depth adjust cover and handle.
- Can be used on the RH and LH side, so one part replaces John Deere part numbers (RH) AN282108 and (LH) AN282109, which are installed on John Deere 60, 90 and ProSeries openers.
- Heavy duty steel construction for much longer life than the John Deere cast arm.



Includes

Grade 8 nut & bolt (for jaw)

Part: Disc Opener Hub Bearing for 60, 90 and ProSeries John Deere



Benefits

- Disc Opener Bearing for John Deere 60, 90 and Pro Series (fits 1560, 1590, 1890, 1895, 1690, 1990 and new N500 Series).
- Individually packaged NTN bearings which are the same brand and type currently offered by John Deere in their factory hubs.

Part: Chrome Plated Large Wear Ring for 60, 90 and ProSeries John Deere Disc Opener Hubs



Benefits

- Chrome plated to reduce corrosion and extend the life
- of the wear ring and hub seal.
- 1 Required per row on 60, 90 and ProSeries Replaces John Deere Part # W33806

Dimensions

- Presses into 3.75” socket within the hub
- 3.65” ID, 0.45” Wide

Part: Chrome Plated Small Wear Ring for 50, 60, 90 and ProSeries John Deere Disc Opener Hubs



Benefits

- Chrome plated to reduce corrosion and extend the life of the wear ring and hub seal.
- 2 Required per row on 50 series hubs and 1 required per row on 60, 90 and ProSeries hubs
- Replaces John Deere Part # N219000

Dimensions

- Presses into 2.35” socket within the hub
- 2.25” ID, 0.375” Wide

Part: Large Seal for 60, 90 and ProSeries John Deere Disc Opener Hubs



Benefits

- 1 Required per row on 60 & 90 series.
- Replaces John Deere Part # AN281241.

Dimensions

- 3.67” OD, 2.83” ID, 0.31” Wide

Part: Small Seal for 50, 60, 90 and ProSeries John Deere Disc Opener Hubs



Benefits

- 2 required per row on 50, 60, 90 and ProSeries.
- Replaces John Deere Part # B13294.

Dimensions

- 2.36” OD, 1.50” ID, 0.27” Wide

Ready to order?

Download the pdf order form via this QR Code



RED E AG

HIGH PERFORMANCE AIR SEEDER PARTS

Red E Ag into Australia

AG Culture Pty Ltd started importing Red E Ag into Australia in 2022. Red E Ag aim to give farmers an agricultural edge by offering reliable, high performing aftermarket air seeding and precision planter solutions. AG Culture Pty Ltd brought in a select range of Red E Ag products to complement the range already offered by Needham Ag.

Check out the next pages for more details.

Aust Disc Seeder Owners Group - share savings!

Join our Disc Seeder Owners' Group. AG Culture Pty Ltd offers our Aust Disc Seeder Owners Group access to discounted freight once a year. We are able to do this because we take advantage of cheaper sea freight rates and currency exchange by importing orders in bulk near the end of the season.

The components arrive onsite for farmers prior to next seeding. Orders can be collected from our facilities at Kadina, South Australia, or we can arrange freight to you via your preferred freight provider.

Becoming a member of our Aust Disc Seeder Owners Group doesn't cost anything and it is as simple as contacting us at sales@agculture.com.au and requesting to be added to the group. Order forms are sent out annually to members with notice of the next order deadline.

Red E Ag visits South Australia

Scan the QR Codes below to watch the short videos of Red E's Australian Ag Tour.

Part 1

Part 2

Part 3

Part: 19” Notched Cutting Disc To Suit John Deere



Red E Ag Part Number: RE4926

Patented & exclusive notched opener disc cuts through tough residue and avoiding hair pinning. Use on your front rank to deposit fertiliser below seed depth.

Specifications

For use on John Deere 60 & 90 Series Air Drills
Replaces John Deere P/N: N283804 & N214190

*NOT COMPATIBLE WITH THE NEW PRO-SERIES SFP NH3 SCRAPERS.

Part: 3” Rubber Tyre Spoked Gauge Wheel



Red E Ag Part Number: AG2064R

Gauge wheels control the depth the seed is placed and in adverse soil or weather conditions can collect mud and trash making it difficult or impossible to continue planting.

Benefits

- Heavy duty cast hub & spokes for increased strength
- Narrow spokes leave large windows to easily clear
- mud & debris
  Serviceable wheels and bearing.

Specifications

For use on John Deere 60 & 90 Series Air Drill.

Part: 4.5” Rubber Tyre Spoked Gauge Wheel



Red E Ag Part Number: AG2080R

Gauge wheels control the depth the seed is placed and in adverse soil or weather conditions can collect mud and trash making it difficult or impossible to continue planting.

Benefits

- Heavy duty cast hub & spokes for increased strength
- Narrow spokes leave large windows to easily clear
- mud & debris
  Serviceable wheels and bearing.

Specifications

For use on John Deere 60 & 90 Series Air Drill.

Part: Seed Boot Stabilizer Kit



Red E Ag Part Number: AG-K07-ST

Patented simple bolt on device designed to fit between the main opener arm boot pivot flanges and the seed boot, eliminating the up and down movement of the seed boot and allowing for a consistent furrow and more even seed placement.

Benefits

- Removes up and down play of the seed boot
- Alternative to labor-intensive boot pivot and/or main opener
- arm drilling and bushing installation
- Simple to install with no drilling or machining required Direct replacement for OEM.

Specifications

Fits 50, 60, and 90 series John Deere openers.
US PATENT 9,485,903

Part: HD Extended Wear Seed Boot Bushing Kit



Red E Ag Part Number: AG-K07

Our seed boot pivot bushing kit rehabilitates the pivot and removes the excessive slop that is present greatly reducing the yield robbing up and down movement.

Benefits

- Reduces slop in seed boot pivot
- Stainless steel bushing for longer life
- Includes Grade 8 hardware and new Grade 8 seed tube bolt
- John Deere 1890, 1895, 1990, 1590 Boot Bushing kit

Specifications

Options available for John Deere 60 & 90 Series Air Drills

Ready to order?

Download the pdf order form via this QR Code

Part: Firming Wheel Arm



Red E Ag Part Number: AG1030

Replace your bent firming wheel arm and keep your firming wheels in the furrow while you're in the field.

Specifications

For use on JD 60 & 90 Series Air Drills.
Replaces John Deere P/N: N282115

Part: Left and Right Heavy Duty Firming Wheel Arm Spring



Left Red E Ag Part Number: AG1076L

Right Red E Ag Part Number: AG1076R

Heavy-duty press wheel springs feature a square wire cross-section and an extra coil, increasing down pressure and extending the spring's life.

Benefits

- 5% – 10% more available down pressure over OEM and other round wire replacement springs
- Powder coated for better corrosion resistance.

Specifications

For use on JD 60 & 90 Series air drills
Replaces JD P/N: N282218 (Right), N282219 (Left)



Heavy Duty Wheel Arm Pivot Kits

Longer lasting Red E solution that removes excess play or stiffness in the pivot. Greasing intervals are reduced to 1-2 times per season. Effectively seals out dirt & debris.

Part: Heavy Duty Press/ Firming Wheel Arm Pivot Kit

Red E Ag Part Number: AG-K02

Replaces John Deere P/N: N284086, N219547, N169024, A92849, A85727

Part: Heavy Duty Closing Wheel Arm Pivot Kit

Red E Ag Part Number: AG-K01

Replaces John Deere P/N: 19H3353, N280648, N219547, N169024, A92849, A85727

Part: Left and Right Closing Wheel Arm Assembly



Left Red E Ag Part Number: AG-K19L-90

Right Red E Ag Part Number: AG-K19R-90

This direct replacement closing wheel arm allows you to upgrade your mid-row bander row units to seed row units and can replace bent arms caused from unfolding with rows down or hitting rocks in the field.

Benefits

- Includes closing wheel arm, bearing, snap ring, and dust cap
- Direct replacement closing wheel arm to upgrade mid-row bander row units to seed row units
- Replaces bent arms caused from unfolding with rows down or hitting rocks in the field
- Precision laser cut and formed from mild plate steel – not cast iron.

Specifications

For use on John Deere 60 & 90 series no-till drills
Replaces JD P/N: AN281170 & AN281171

Part: Left and Right Heavy Duty Closing Wheel Arm Spring



Left Red E Ag Part Number: AG-K14L

Right Red E Ag Part Number: AG-K14R

Heavy duty closing wheel springs feature a square wire cross section and an extra coil, increasing down pressure and extending the spring's life.

Benefits

- 5% – 10% more available down pressure over OEM and other round wire replacement springs
- Additional coil in spring produces up to 20% longer life over OEM and other round wire replacement springs
- Assists in maintaining contact between closing wheel and ground for consistent closing of the seed trench
- Powder coated for better rust prevention

Specifications

For use on JD 60 & 90 Series Air Drills
Replaces JD Part #: N283994, N283995

IMPORTANT: If you have not upgraded your pivot with the Heavy Duty Closing Wheel Pivot Kit, an additional closing wheel hardware kit is required, as the OEM bolt is too short

Part: Single Piece Drill Guide Block



Red E Ag Part Number: AG1140

Assists in precisely drilling out worn or egg-shaped seed boot pivot holes on the main opener arm casting in preparation for Red E's seed boot bushing kit. It easily clamps to the seed boot and keeps the custom 4 flute reamer bit straight and aligned, ensuring proper seed boot engagement to the disc. Worn or incorrectly drilled holes introduce mud and straw plugging issues and premature and uneven seed boot wear.

Specifications

Options available for John Deere 50, 60 & 90 Series Air Drills

Enquire to about hire price and availability

Part: 5/8 x 6 Hole Hawger Bit



Red E Ag Part Number: AG2057HH

Red E's Hole Hawger 4-Flute bit is a 1 pass, long life, reamer bit. To be used with the Single Piece Drill Guide Block above.

Part: Stainless Steel Distributor Wear Cap



Red E Ag Part Number: JAS0210P

Are you tired of fighting with your rusted and corroding John Deere air cart and drill? Repair your worn distributor head with our stainless steel distributor head wear cap and greatly extend it's usable life.

Benefits

- Protects new & repairs worn John Deere distributor caps
- Stainless steel construction.

Specifications

For use on John Deere 60 & 90 Series Air Drill.



Stainless Steel Seed Tube Rebuild Kit

The mounting hole in the seed tube is often the first point of failure, wearing out and creating a loose connection. Our stainless steel seed tube rebuild kit for John Deere air seeders allows you to reuse the upper portion of the seed tube and replace only the bottom-worn portion, saving you time and money.

Benefits

- Repair sloppy or stuck seed tubes
- Complete with seed tube bolt and Sabre™ tooth clamp
- Innovative design improves hose installation and removal

Specifications

Includes: Seed tube lower, stainless steel hose clamp x2, seed tube splice connector.
For use on John Deere 1590, 1690, 1890, and 1895 series air seeders.

Part: STRAIGHT Stainless Steel Seed Tube Rebuild Kit

Red E Ag Part Number: AG-K25

Replaces John Deere P/N: A72825 (Straight)

Part: LEFT Stainless Steel Seed Tube Rebuild Kit

Red E Ag Part Number: AG-K27

Replaces John Deere P/N: A72825 (Left)

Part: RIGHT Stainless Steel Seed Tube Rebuild Kit

Red E Ag Part Number: AG-K26

Replaces John Deere P/N: A81406 (Right)

Ready to order?

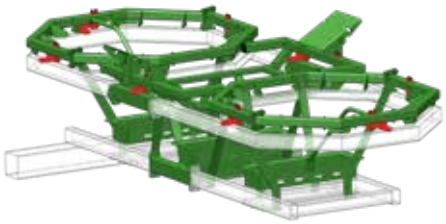
Download the pdf order form via this QR Code

Stainless Steel Air Seeder Solutions

Red E Ag has a huge range of high performance stainless steel accessories and options to suit John Deere 1900, 1910 and C-Series.

We've only selected a handful of options within this book but we can source any product on their website. Scan the QR Code to view the stainless steel range on Red E Ag's website.

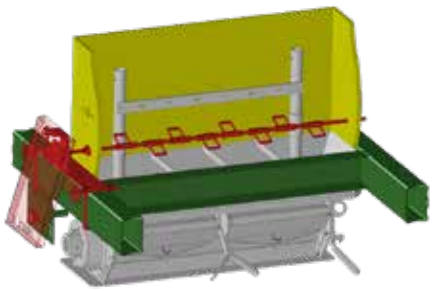
Part: John Deere 1910 Tank Scales



Red E Ag Part Number: TS-TB*

Under or over applying product by even a few litres per acre can add up to big losses. Red E's John Deere 1910 tank scales allow you to verify product application rates, calibrate faster, and keep the tractor moving. Improve efficiency and know precisely what is in each tank at any time. Compatible with select John Deere 1900 and 1910 air carts

Part: Tank Agitator



Red E Ag Part Number: SSK-JD-ITA

Break up material that's lodged or bridged within the neck of your air cart tank with Red E's exclusive tank agitator! Assists the original meter housing agitation assembly and is operated by the same drive shaft assembly as the meter roll. Universal design works on ground driven or hydraulic driven air carts. Tank agitator kit compatible on OEM and aftermarket setups on John Deere 1910 air carts.

Part: AirSeeder Conveyor Hopper



Red E Ag Part Number: ASH-CONV-JD

The AirSeeder Conveyor Hopper is constructed of lightweight plastic driven with an orbit motor. The Airseeder Conveyor Hopper is a great replacement option that fits underneath semi-trailers and mounts in place of the existing John Deere conveyor. Can pull the pin to allow the end to swing sideways for clearance to get under the air cart.

Part: Romafa Section Command Stainless Steel Meter Housing



Red E Ag Part Number: JAS0006A

Romafa stainless steel meter housing will help you end the struggle with stuck half-width disconnects, corroded meter housings, and air leaks. This meter housing is John Deere Section Command compatible. Resists corrosion using durable, all stainless steel, half-width disconnects. Designed to make operation easy and frustration-free.

Specifications

For John Deere 1900 & 1910 Air Carts.
Replaces John Deere P/N: AA86231 and AA85090

Other Options Available include: Ground Drive (JAS0001A) & Individual Section Control and Run Shut Off (JAS0168A).

Part: Stainless Conveyor Feeder



Red E Ag Part Number: JAS6000A

Current conveyor hoppers do not allow sufficient depth to fully reach under the cart or semi hopper bottoms. Red E's Stainless Conveyor Feeder is designed for your John Deere 1910 air cart conveyor and provides a low-profile option for operators that fill from semi hopper bottoms. The conveyor extension folds to keep debris out of the hopper when not in use and can be maneuvered into tight spaces during transport and seeding. The rubber skirting adds capacity to the hopper and flexibility during use. Comes standard with a large screen and an optional small screen option is available to optimise product flow and keep foreign material out during the unloading process.

Part: Stainless Steel Half-Width Disconnect Kit



Red E Ag Part Number: SSK-HWD-**

Stop fighting with stuck half-width disconnects and have the confidence to fully open or close off product flow to the metre roller. This universal stainless steel half-width disconnect kits allows you to retrofit your existing John Deere meter housing with a rigid and corrosion-resistant, half-width disconnect that will easily rotate, won't get stuck, and won't twist.

Specifications

For John Deere 1900 & 1910 Air Carts.


WESTEEL
WESTEEL
AGI WESTFIELD
WCX3 1549
WCX3

AGI Westfield Australia

1951 was the year that the first Westfield augers were sold. Even back then they featured the now iconic bright yellow colour, reminiscent of fields of golden wheat. Ag Growth International (AGI) acquired Westfield Industries in May 2000. AGI is a Canadian agricultural company with over 35 brands and is one of the most recognised equipment manufacturers in the global agriculture industry. The AGI Westfield factory produces over 13000 augers a year and AGI Westfield is now the leading grain auger manufacturer in the world, with a reputation for producing high quality reliable products.

Proud South Australian Suppliers

AG Culture Pty Ltd is the direct supplier for AGI Westfield conveyors and AGI Westfield Augers in South Australia. AG Culture Pty Ltd holds a range of stock and is also able to source product to fulfil retail orders, when needed. AG Culture Pty Ltd is from a farming background so we understand the need to be prompt and minimise delays.



Choosing the right size belt conveyor

A Belt Conveyor can only move product as long as it is below that products degree of repose. Once the belt conveyor goes past the angle of repose the product will roll back down the belt.

The table below indicates the maximum height a conveyor can move product at 26 degrees.

The actual degree of repose will vary on the moisture content and size of the grain. As a general rule of thumb 26 degrees is the maximum angle a belt conveyor will work efficiently at. It is worth noting Barley and Durum Wheat have a degree of repose of 25 degrees.

Length of Belt Conveyor	Maximum Reach at 26 degrees
30 foot	13 foot (4 meters)
35 foot	15 foot (4.6 meters)
40 foot	17 foot (5.2 meters)
45 foot	19 foot (5.8 meters)
55 foot	24 foot (7.3 meters)
65 foot	28 foot (8.5 meters)
75 foot	32 foot (9.8 meters)
85 foot	37 foot (11 meters)
95 foot	41 foot (12 meters)
105 foot	46 foot (14 meters)
120 foot	52 foot (16 meters)

	Degree Of Repose
Wheat	26 Degrees
Urea	26 Degrees
Chickpeas	29 Degrees
Corn	26 Degrees
Barley	25 Degrees
Durum Wheat	25 Degrees

Choosing the right auger

It's not an ordinary auger...it's a Westfield.

Model	Auger Type	Power Required	Maximum Tons (per hr)*	Maximum Height (meter s)**	Maximum Height (feet / inches)**
STX2 8:41	Transportable	23 hp Kohler	90	7.46m	24' 6"
STX2 8:51	Transportable	23 hp Kohler	90	8.8m	29'
STX2 10:41	Transportable	27 hp Kohler	120	7.46m	24' 6"
STX2 10:51	Transportable	32 hp Kohler	120	8.8m 12.11m	29' 39' 9"
STX2 10:61	Transportable	38 hp EFI Kohler	120		
UTX 44	U–Trough	38 hp EFI Kohler	200	5.4m	18'
X 10:73	Swing Away	60 PTO hp	120	14.57m	47' 10"
X 10:83	Swing Away	65 PTO hp	120	16.84m	55' 3"
X 13:84	Swing Away	155 PTO hp	290	16.76m	55'
X 13:94	Swing Away	165 PTO hp	290	18.31m	60' 1"
MKX 13:114	Swing Away	185 PTO hp	290	20.65m	67" 9"
MKX 16:105	Swing Away	200 PTO hp	600	23m	75' 6"
MKX 16:125	Swing Away	225 PTO hp	600	26.2m	86'

* Tons per hour quoted is a guide only. Many factors including moisture content, auger angle, grain type and foreign matter have a large bearing on the capacity of an auger.

** The heights quoted are the maximum height the auger will reach in ideal conditions. Do not run an auger at its maximum height as it becomes very inefficient and causes accelerated wear on the flighting and drive train. You need to allow a meter for the drop chute and another meter as a safety margin. Remember to take into account the height of the silo slab and slope of the ground when calculating the required auger height.

Ready to order?

Refer to page 90 of this book or download the pdf order form via this QR Code →

AGI WESTFIELD

Range of Conveyors

WCX3 15:49 FMD Field Loader - Motor Drive - IBEX Mover Kit



Specifications

- 49 Foot Long
- 32” wide low profile Field Loader Hopper
- 10 inch Tube
- 15” inch Belt
- 245 tons per hour
- IBEX Mover Kit: built-in braking system,
- better traction and 160° turning
- 32 hp Kohler Motor
- Turbo clean wash system
  Pinch S Drive

WCX3 Field Loader - Top Drive



Specifications

- Universal motor mount - fits most brands
- and sizes of 10-12 HP electric motors
- Available in Electric or Hydraulic drive
- Designed for hopper bottom bins and reaching under trucks
  Drive roller and pinch roller track together instead of separately

15:39 FLTD	15:44 FLTD	15:49 FLTD
Length: 39 Foot Long	**Length:** 44 Foot Long	**Length:** 49 Foot Long

Scissor Lift - Motor Drive - Mover Kit



Specifications

- Hydraulic Mover Kit
- 10 inch Tube
- 15” inch Belt
- 160 tons per hour
- 32 hp Kohler Motor

WCX 15:77	WCX 15:87	WCX 15:102
Length: 77 Foot Long	**Length:** 87 Foot Long	**Length:** 102 Foot Long

Scissor Lift - Swing Away - PTO Drive



Specifications

- 10 inch Tube
- 15” inch Belt
- 160 tons per hour
- PTO Drive
- Pinch S Drive
- Hydraulic Powered Swing Away + Winch
- (Requires approximately 12 GPM / 46 lpm)
- Center mounted CV PTO shaft
  Hydraulic Power Swing

WCX 15:75	WCX 15:90
Length: 75 Foot Long	**Length:** 90 Foot Long

Scissor Lift - Side PTO Drive



Specifications

- 14 inch Tube 23.5”
- inch Belt 360 tons
- per hour Side PTO
- Drive S Drive 12
- Gauge Tube Side
- PTO Drive Steel
- Truss Bracing
-

WCX 24:105	WCX 24:120
Length: 105 Foot Long	**Length:** 120 Foot Long

AGI WESTFIELD

Range of Augers

13” Swing Away Augers



Specifications

- Brace Tube Bracing
- Reverser Kit & Drop Chute as standard
- equipment
- Low-profile Swing Away Hopper
- Scissor Lift Frame
  Square flighting connections

X 13:84 13” Swing Away Augers

Power Required

155 hp

X 13:94 13” Swing Away Augers

Power Required

165 hp

Ready to order?

Refer to page 90 of this book or download the pdf order form via this QR Code

UTX U-Trough Transportable Auger (Includes Heavy Duty Mover Kit)



Model

UTX 44

Motor

Kohler ECH 980 (38 hp)

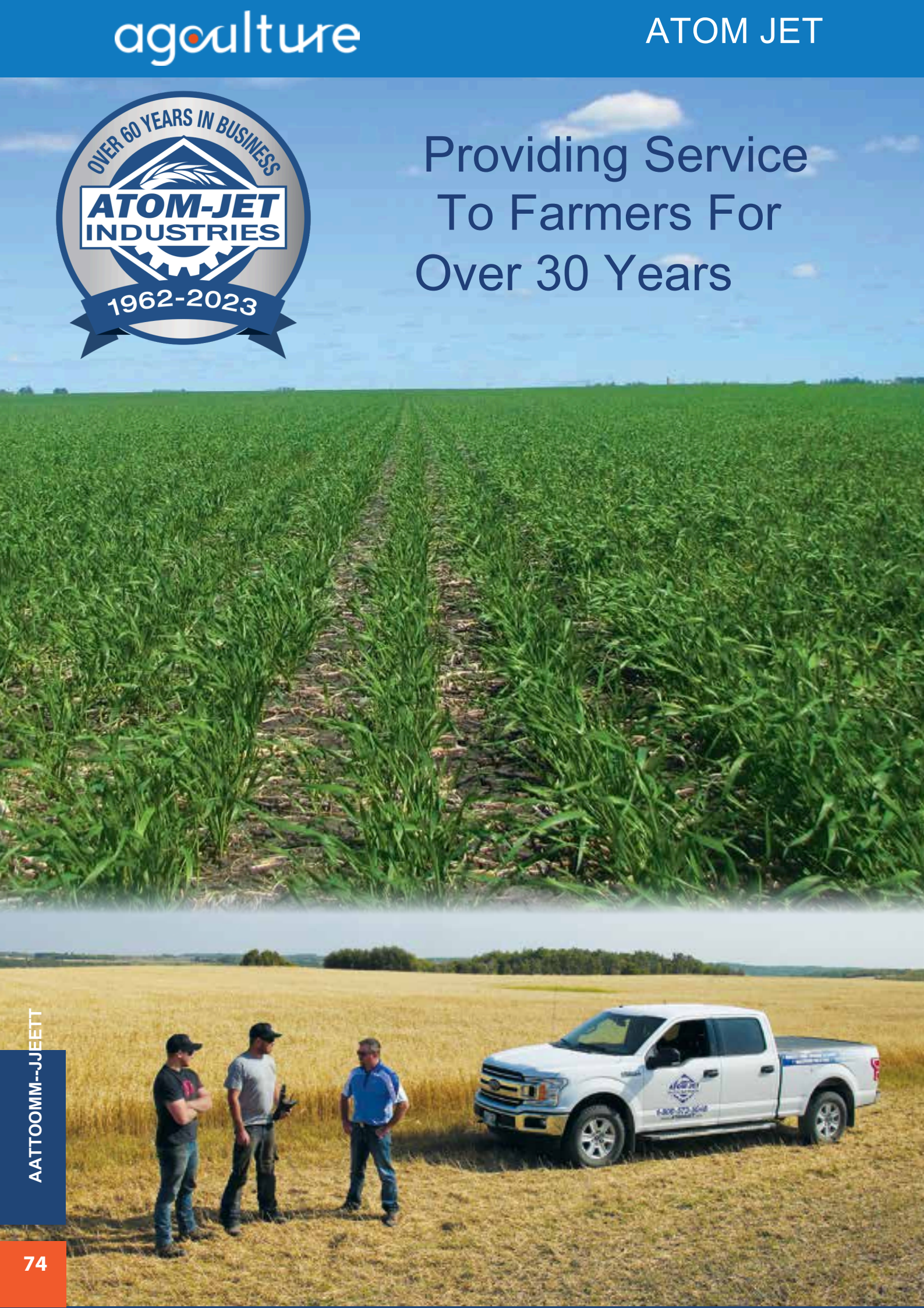
Benefits and Specifications

- **Fast** - Up to 240 tons per hour. The unique U trough design allows you to move grain fast.
- **Reversing Gearbox** Comes with shifting linkage and lockout, allowing the operator to safely reverse the auger at all angles
- **Heavy Duty Hydraulic Mover Kit** with hydraulic winch makes moving the auger a breeze
- **Triple Banded Belts** maintain speed by providing better tension with less slippage
- **Electric Clutch** Start and stop the auger without shutting down the engine
- **Wear Edge Technology™** extends the life of the flighting
- **Square One-Bolt Flight Connections** provide improved performance through positive torque transfer for smooth operation
- **Work Lights** LED work lights allow you to work later so you can get the job done sooner
- **Durable Powder Coat Paint** protects the auger finish and repels rust
- **Solid Tube Guard** completely encloses the driveline with Top Drive Chain Tensioner to provide better adjustment capabilities and consistent chain drive tension



OVER 60 YEARS IN BUSINESS
ATOM-JET INDUSTRIES
1962-2023

Providing Service To Farmers For Over 30 Years



Atom-Jets into Australia

The Atom-Jet and AG Schilling & Co relationship started over fifteen years ago, with Mark Schilling a third-generation farmer in Yorke Peninsula's northern region looking for a change from conventional seeding. Mark was searching for a No-Till option to conserve moisture that was being lost with conventional methods. After researching his options and being the innovator that he is, Mark ordered a set of Atom-Jet openers for his own farm. What he found was that not only did the openers give him the No-Till practices he wanted, they also were very accurate at placing seed and the durability was second to none. This was reinforced by the Atom-Jet Guarantee proving the confidence in the product. AG Schilling & Co then became the sole Australian importer of the Atom Jet openers.

In 2018, AG Schilling & Co expanded with a new company, AG Culture Pty Ltd, to pursue and prosper by continuing the exclusive dealing with Atom Jet in Australia.

Atom-Jet Points Of Difference

1. Great seed soil contact as seed is placed on a firm seedbed immediately after opening the soil.
2. Seed/fertiliser separation can be achieved without fracturing the seed bed which results in rapid soil drying.
3. Through the vertical design, soil blockages have virtually been eliminated.
4. Reduced soil throw as the vertical design splits the soil rather than lift it like most horizontal designs.
5. Enhanced trash flow as the vertical design flows trash around the opened rather than travel up the tines shank.
6. Improved soil penetration by minimising the amount of opener entering the soil.
7. Reduced draft by only cultivating the soil to the depth of the seed bed.
8. Less rocks pulled up as the flat design allows the opener to float over the top of a rock rather than hooking under it.
9. Re-buildable design allows tips to be replaced and hard surfacing renewed extending the life achieved from a set.
10. Atom Jet have pioneer Carbide technology in seeding points for extended life.

"Very happy with the vertical profile of the opener to minimise soil throw.

Excellent seed & fertiliser placement in the variation of soil types. It's durable and a robust design for the required job"

Simon Cook



Location: Hectares:	Langhorne Creek, SA
Atom Jet Openers:	1200 Ha
Seeding Bar:	C-Shank, ¾" Single Shoot, Front Liquid Tube (for below the seed) Bourgault, 8800, Cultivator & Press Wheels, 300lbs Spring Tyne, 10" Spacing, 30' Wide
Years of use:	First Year

"Very happy! Accurate seed & liquid placement, they keep clean in the trash, and good on mixed country.

It has taken 15 years to get to this point."

Andrew Watson



Location: Hectares:	Wirrulla, SA
Atom Jet Openers:	6060 Ha per year
Seeding Bar:	C-Shank, 1" Single Shoot, Front Liquid Tube (for below the seed) Bourgault, 8910, Cultivator & Press Wheels, 300lbs Spring Tyne, 10" Spacing, 74' Wide
Years of use:	First Year

"Good seed placement at the bottom of the farrow with next to no seed bounce, excellent durability.

Very happy with Atom-Jet."

David Cawrse



Location:	Wasleys, Adelaide Plains, SA
Hectares: Atom Jet	1500 Ha Per Year
Openers: Seeding	C Shank, 3/4" Single Shoot
Bar: Years of use:	Ezee-on spring tyne, 10" spacings 8 years

"They're excellent. They rarely block up with mud.

Very happy with the germination from the seed placement and very good all-round in different soil conditions."

Brad Lynch



Location:	Streaky Bay, SA 1500 Ha C-Shank, ¾" Single Shoot Horwood Bagshaw Scaribar & Press wheels,
Hectares: Atom Jet	
Openers: Seeding	
Bar:	165 lbs single springs, 8 ¾" spacing, 50' wide
Years of use:	2 years

C-Shank 3/4" Single Shoot



Part Number CCAA00

Specifications

Opener Type:	Single Shoot
Shank Type:	C-Shank
Shank Spacing:	7.5" - 12"
Packer Widths:	2" - 4.5"
Fertiliser Type:	Granular
Seed Tube:	1.25" OD
NH3:	Optional

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable/Repairable (Hardsurfacing)
  Excellent Soil Penetration

C-Shank 1" Single Shoot



Part Number CCAC00

Specifications

Opener Type:	Single Shoot
Shank Type:	C-Shank
Shank Spacing:	7.5" - 12"
Packer Widths:	2" - 4.5"
Fertiliser Type:	Granular
Seed Tube:	1.25" OD
NH3:	Optional

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable / Repairable (Hard surfacing)
  Excellent Soil Penetration

C-Shank 3" Paired Row Granular



Part Number CCDTD0

Specifications

Opener Type:	Paired Row Granular
Shank Type:	C-Shank
Shank Spacing:	9" - 12"
Packer Widths:	3.5" - 6"
Fertiliser Type:	Granular
Seed Tube:	1.25" OD

Why Choose

- Double Shoot Technology
- Same Plane Seed-
- Fertiliser Placement
- Full Carbide on Point and
- Wings
  Maintainable/Repairable
  Even Germination

C-Shank 3” Spreader



Part Number CCBTD0

Specifications

Opener Type:	Single Shoot
Shank Type:	C-Shank
Shank Spacing:	9” - 12”
Packer Widths:	3.5” - 5”
Fertiliser Type:	Granular
Seed Tube:	1.25” OD

Why Choose

- Excellent Seedbed
- Utilization
- Even Germination
- Maintainable/Repairable (Hard-surfacing)
- Firm Seedbed

C-Shank 1” Left Side Band NH3



Part Number CCJCH0

Specifications

Opener Type:	Double Shoot Side Band NH3
Shank Type:	C-Shank
Shank Spacing:	7.5” - 12”
Packer Widths:	2.5” - 4”
Fertiliser Type:	Granular & NH3 or Liquid
Seed Tube:	1.25” OD
Point Size:	Optional 3/4” or 1”
Ortho Tube:	Optional .25” / .375”

Why Choose

- Double Shoot Technology
- Large Seed Gallery
- Same Plane Seed-
- Fertiliser Placement
- Fully Carbided on Point
- and Wing
- Starter Phos Compatible
- Insulated NH3 Line

C-Shank 1” Right Side Band NH3



Part Number CCJCJ0

Specifications

Opener Type:	Double Shoot Side Band NH3
Shank Type:	C-Shank
Shank Spacing:	7.5” - 12”
Packer Widths:	2.5” - 4”
Fertiliser Type:	Granular & NH3 or Liquid
Seed Tube:	1.25” OD
Point Size:	Optional 3/4” or 1”
Ortho Tube:	Optional .25” / .375”

Why Choose

- Double Shoot Technology
- Large Seed Gallery
- Same Plane Seed-
- Fertiliser Placement
- Fully Carbided on Point
- and Wing
- Starter Phos Compatible
- Insulated NH3 Line

Morris Contour 1/2” Single Shoot



Part Number **CAAS00**

Specifications

Opener Type:	Single Shoot
Shank Type:	Morris Contour
Shank Spacing:	7.5” - 12”
Packer Widths:	2” - 4.5”
Fertiliser Type:	Granular
Seed Tube:	1.25” OD
NH3:	Optional
Ortho Tube:	Optional .25” / .375”

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable/Repairable (Hardsurfacing)
Excellent Soil Penetration

Morris Contour 3/4” Single Shoot



Part Number **CAAA00**

Specifications

Opener Type:	Single Shoot
Shank Type:	Morris Contour
Shank Spacing:	7.5” - 12”
Packer Widths:	2” - 4.5”
Fertiliser Type:	Granular
Seed Tube:	1.25” OD
NH3:	Optional
Ortho Tube:	Optional .25” / .375”

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable/Repairable (Hardsurfacing)
Excellent Soil Penetration

Morris Contour 1” Single Shoot



Part Number **CAAC00**

Specifications

Opener Type:	Single Shoot
Shank Type:	Morris Contour
Shank Spacing:	7.5” - 12”
Packer Widths:	2” - 4.5”
Fertiliser Type:	Granular
Seed Tube:	1.25” OD
NH3:	Optional
Ortho Tube:	Optional .25” / .375”

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable/Repairable (Hardsurfacing)
Excellent Soil Penetration

Morris Contour 3” Single Shoot Spread



Part Number CABTD0

Specifications

Opener Type:	Single Shoot
Shank Type:	Morris Contour
Shank Spacing:	9” - 12”
Packer Widths:	3.5” - 5”
Fertiliser Type:	Granular
Seed Tube:	1.25” OD

Why Choose

- Excellent Seed Placement
- Even Germination
- Maintainable/Repairable
- (Hardsurfacing)
  Firm Seedbed

CIH700/NH2060 1” Single Shoot



Part Number CHAC00

Specifications

Opener Type:	Single Shoot
Shank Type:	CIH700 & NH 2060
Shank Spacing:	Edge On
Packer Widths:	7.5” - 12”
Fertiliser Type:	2” - 4.5”
Seed Tube:	Granular
Ortho Tube:	1.25” OD Optional .25” / .375”

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable/Repairable
  (Hardsurfacing)
  Excellent Soil Penetration

Bourgault 1” Edge On Single Shoot



Part Number CDAC00

Specifications

Opener Type:	Single Shoot
Shank Type:	Bourgault Paralink
Shank Spacing:	10” - 12”
Packer Widths:	4.5” - 5.4”
Fertiliser Type:	Granular
Seed Tube:	1.25” OD (Optional 1.25” OD - 1” OD)
Ortho Tube:	Optional .25” / .375”

Why Choose

- Starter Phos Compatible
- Mud Spur Eliminates
- Plugging
- Maintainable / Repairable
  (Hardsurfacing)
  Excellent Soil Penetration

ConservaPak 1/2” Fertilizer Knife



Part Number CPAW00

Specifications

Opener Type: Fertilizer Knife
Shank Type: John Deere
Fertiliser Type: ConservaPak
Granular

Why Choose

- Max longevity high chrome cast
- ½” narrow banding profile maintains low disturbance and superior furrow closing
- Tungsten carbide protected point made of abrasion resistant steel
- Compatible with all fertilizer types

ConservaPak 1/2” NH3 Fertilizer Knife



Part Numbers

1/4” Tube: **CPAW12**
3/8” Tube: **CPAW13**
1/2” Tube: **CPAW14**

Specifications

Opener Type: Fertilizer Knife
Shank Type: John Deere
Fertiliser Type: ConservaPak
Point Size: Granular
0.5”

Why Choose

- High chrome point
- Easy mounting, quick-change system with hardware included
- Product tube opening is larger than OEM, minimizing plugging
- Granular tube is protected with hardsurface welding to reduce
- wear and prevent plugging
- NH3 tube exits straight down from the knife for better placement and no plugging
  Insulated NH3 tube eliminates knife freezing

ConservaPak 3” Paired Row Seed Boot



Part Number CPD000

Specifications

Opener Type:	Paired Row
Shank Type:	John Deere ConservaPak
Shank Spacing:	12”
Seed Tube:	1.25” OD

Why Choose

- Curved paired row boot seals
- fertilizer trench
- Distinct paired row
  Carbide protected wings and underside increases longevity

ConservaPak Single Shoot Seed Boot



Part Number CPAA00

Specifications

Opener Type:	Single Shoot
Shank Type:	John Deere ConservaPak
Shank Spacing:	12”
Seed Tube:	1.25” OD

Why Choose

- Carbide protected point and chute
- Seed is placed on a shelf above
- the fertilizer
  Seed boot design allows for increased soil coverage

ConservaPak Mud Scraper



Part Number CPMS00

Specifications

Shank Type:	John Deere ConservaPak

Why Choose

- Long lasting carbide protection
- Easy installation
- OEM replacement

Ready to order?

Refer to page 90 of this book or download the pdf order form via this QR Code →

Aus Rhizo Knife 1/2" Deep Ripper Blade



Why Choose

- Blade made of abrasion resistant plate
- High-grade North American tungsten carbide leading edge
- Maintainable / Repairable (Hard surfacing)

Part Number KD6000

Specifications

Opener Type:	Deep Ripper
Shank Type:	bolt-on DBS tynes
Opener Length:	6"

Part Number KD7000

Specifications

Opener Type:	Deep Ripper
Shank Type:	bolt-on DBS tynes
Opener Length:	7"

Part Number KD8000

Specifications

Opener Type:	Deep Ripper
Shank Type:	bolt-on DBS tynes
Opener Length:	8"

Part Number KD9000

Specifications

Opener Type:	Deep Ripper
Shank Type:	bolt-on DBS tynes
Opener Length:	9"

C-Shank Ripper



Part Number CCDXR0

Specifications

Opener Type:	Double Shoot 3"
Shank Type:	Paired Row
Shank Spacing:	C-Shank
Packer Widths:	9" - 15"
Fertiliser Type:	4" - 5.5"
Seed Tube:	Granular 1.25" OD

Why Choose

- Consistent seed
- separation from fertiliser
- Replaceable 3" point
- Placing seed 3" apart on a firm seedbed
  Fertiliser applied in ripped borrow between seed

Bourgault PHD 3320



Part Number CDDXR0

Specifications

Opener Type:	Double Shoot 3”
Shank Type:	Paired Row
Shank Spacing:	C-Shank
Packer Widths:	9” - 15”
Fertiliser Type:	4” - 5.5”
Seed Tube:	Granular
NH3:	1.25” OD
	Optional

Why Choose

- Consistent seed
- separation from fertiliser
- Replaceable 3” point
- Placing seed 3” apart on a firm seedbed
- Fertiliser applied in ripped borrow between seed

Parts and Accessories

C-Shank Top Cover (Laser Cut)



Part Number
CZTA00

Hose Size Reducer



Part Number
CZM0R0

C-Shank Top Cover (Blank)



Part Number
CZTA00B

Focus Strip



Part Number
CZLFF0

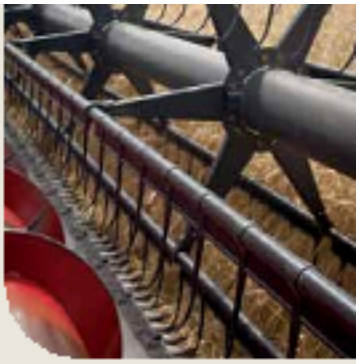
Bolt Kit (GR8 1/2 × 2-1/2”)



Part Number
CZM0AA

Grain Harvesting Code of Practice

A Basis for District Harvesting Codes of Practice



Grassland Fire Danger Index (GFDI)

Fire Behaviour Relationships

Fire Danger Index	Rate of Spread (km/h)	Difficulty of Suppression		Maximum Area at Various Times from Start (hectares)				Avg. Final Size of Fire (hectares)
				½hr	1hr	2hr	4hr	
2	0.	Low	Headfire stopped by road and tracks	3	20	80	320	3
5	3	Moderate	Head attack easy with water.	6	40	160	640	16
10	0. 1.3 6	High	Head attack generally successful with water Head attack will generally succeed at this Index	15	90	360	1440	65
20	2.6	Very High	Head attack may fail except in favourable circumstances and close back burning to the head may be necessary	35	210	840	3360	450
40	5.2	Very High		80	480	2000	8000	2400
50	6.4	Extreme	Direct attack will generally fail. Backburn from a secure good line with adequate personnel and equipment. Flanks must be held at all costs.	105	630	2500	10000	4000
70	9.0			170	1000	4000	16000	10000
100	12.8			300	1800	7000	28000	320 0 0

Scan to download a PDF version of the Grain Harvesting Code of Practice

Government of South Australia
Department of Primary Industries and Regions

CFS

GRAIN PRODUCERS SA

Produced September 2023

Grain Harvesting Code of Practice

Scope

This code of practice applies to all grain harvesting and grain handling operations that occur "in the paddock", including operation of grain harvesters, operation of vehicles involved in transporting grain, grain dryers and grain augers.

The Grain Harvesting Code of Practice applies to harvesting of any flammable crop.

Legislative Requirements

1. Compliance with Regulation 35 under the Fire and Emergency Services Act 2005 regarding the issue of stationary engines to auger a crop. That is, an operator must clear the space immediately around and above the engine to a distance of at least four (4) metres, or a person who is able to control the engine is present at all times while the engine is in use. The operator must also carry a shovel or rake, and a portable water spray in good working order, and ensure that engine or exhaust system complies with Fire and Emergency Services Regulation 29 (2) and (3).

2. Compliance with Regulation 36 under the Fire and Emergency Services Act 2005 regarding the use of internal combustion engines to harvest or move a flammable crop. That is, an operator must carry a shovel or rake, and a portable water spray; and ensure that engine or exhaust system complies with Fire and Emergency Services Regulation 29 (2) and (3).

   Fire and Emergency Services Regulation 29
   (2) For the purposes of this Division, an engine or vehicle exhaust system complies with this Division if:
   (a) all engine exhaust emitted by the engine or vehicle exits through the system; and
   (b) the system, or a device or devices forming part of the system, is designed to prevent the escape of burning material from the system; and
   (c) the system, or a device or devices forming part of the system, is designed to prevent heated parts of the system from coming into contact with flammable vegetation; and
   (d) the system is in good working order.
   (3) For the purposes of subregulation (2)(a), engine exhaust emitted by a turbocharged engine, or a vehicle fitted with a turbocharged engine, by means of a device of a kind commonly known as a waste gate will be taken to exit through the exhaust system of the engine or vehicle.

Required Practices

1. Suspend grain harvesting operations when the **local actual GFDI exceeds 35.**

   The local actual GFDI can be determined:
   - By a local committee, in consultation with local farmers
   - As measured or calculated by the harvesting operator.

2. Ensure crop residues on machines are kept to an absolute minimum, especially in areas of potentially high fire risk, such as engines, exhausts or brakes.
3. Adopt a regular maintenance program, both before and during grain harvest operations, paying particular attention to wearing parts and bearings.
4. Operators being aware of the construction materials on harvesting machines and taking reasonable steps to reduce any potential build up of static electricity through harvesting operations.
5. Have immediate access to a UHF CB radio or mobile phone.

Recommended Practices

1. As conditions deteriorate, increased maintenance and vigilance should be practiced.
2. As conditions deteriorate, actively seek information on voluntary harvesting bans.
3. Prior to harvesting commencing, establish a minimum 4-metre fuel break around the perimeters of crops or paddocks to be harvested. This may consist of a 4 metre mown or chemical break with a 2 metre ploughed strip incorporated within it. Alternatively, review your property lay-out and establish a series of strategic fire breaks around groupings of paddocks.
4. Maintain maintenance records.
5. Have a well-maintained and fully operational farm fire-fighting unit with a minimum of 400 litres of water located in the paddock area where harvesting or grain handling operations are occurring. Refer to the Joint Guidelines for operating Farm Fire Units (found at **www.cfs.sa.gov.au**).
6. Operators should monitor media fire ban information advice, or consult the Bureau of Meteorology through their various information methods.
7. All operators of harvesting equipment should be bushfire ready by having appropriate fire fighting clothing and a plan for the protection of themselves, their equipment and the community.
8. Inexperienced operators should undergo instruction and training.
9. Establish a fire prevention and emergency response strategy in regards to fire safety for staff, contractors and machinery operators.

Scan to download a PDF version of the Grain Harvesting Code of Practice

Government of South Australia
Department of Primary Industries and Regions

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GRAIN PRODUCERS SA
The voice of South Australian growers

Produced September 2023

PERSONAL

Trading Name

ABN

Name

Address

Telephone

E-mail

IMPORTANT TELEPHONE NUMBERS

Fire Brigade

Police

Ambulance

Hospital

Doctor

Electricity

Others

MACHINE DETAILS

Make/Model	Make/Model	Make/Model
Serial No.	Serial No.	Serial No.
Year	Year	Year
Engine No.	Engine No.	Engine No.
Make/Model	Make/Model	Make/Model
Serial No.	Serial No.	Serial No.
Year	Year	Year
Engine No.	Engine No.	Engine No.
Make/Model	Make/Model	Make/Model
Serial No.	Serial No.	Serial No.
Year	Year	Year
Engine No.	Engine No.	Engine No.

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PO Box 60
Kadina. SA 5554

ABN: 25 629 768 010
ACN: 629 768 010
Gav Wilson 0447 253 264
sal es@agcul ture.com .au
gavin@agcul ture.com .au

Date Ordered _____ PO Number _____

Manufacturer _____

Trading Name _____

Contact Person _____

Address _____

_____ Post Code _____

Email _____

ABN _____

Mobile No: _____ Phone No: _____

Signature _____ Date _____

PRODUCT CODE	QTY	DESCRIPTION	PRICE

OFFICE USE ONLY			
Inv.#	Date: / /	I nv.$	Emailed or Posted

Customer Order Form

AG Culture Pty Ltd
PO Box 60
Kadina. SA 5554

ABN: 25 629 768 010
ACN: 629 768 010
Gav Wilson 0447 253 264
sales@agculture.com.au
gavin@agculture.com.au

Date Ordered _____ PO Number _____

Manufacturer S3 AWS AIR BAR

Trading Name _____

Contact Person _____

PLATFORM WIDTH	PRICE
_____' (feet) S3 AWS Air Bar	_____ + freight ex Kadina + GST
Platform: Make _____ Model _____ Year of Manufacture _____	Harvester: Make _____ Model _____ Year of Manufacture _____
Feederhouse RHS-Drive _____RPM Feederhouse PTO Drive 21 spline ☐ or 6 spline ☐	
A Drive ☐ B Drive ☐ C Drive ☐	
Reel Configuration: Single Reel ☐ Split Reel ☐ Triple Reel ☐	
PLEASE NOTE: Be aware that our Kits are designed for Harvesters and Platforms and you may need to make some Comb Trailer modifications.	

NOTES


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St John

First aid fact sheet

DRSABCD action plan



Danger Check for danger and ensure the area is safe for yourself, bystanders and the patient.

Response Check for a response: ask name and squeeze shoulders.

No response? Send for help.



Response? Make comfortable; monitor breathing and response; manage severe bleeding and then other injuries.

Send for help Call triple zero (000) for an amb

or ask a bystander to make the call. Stay on the line.

If alone with the patient and you have to leave to call for help, first turn the patient into the recovery position before leaving.



Airway Open the patient's mouth and check fo

material.

Foreign material? Roll the patient onto their side and clear the airway.

No foreign material? Leave the patient in the position found, and open the airway by tilting the head back with a chin lift.



Breathing Check for breathing Look, listen and

10 seconds.

Not normal breathing? Ensure an ambulance has been called and start CPR.



Normal breathing? Place in the recovery position and monitor breathing.

CPR Start CPR — 30 chest compressions follov

2 breaths.

Continue CPR until help arrives, the patient starts breathing, or you are physically unable to continue.



Defibrillate Apply a defibrillator as soon as pos

and follow the voice prompts.

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