

farms & farm machinery

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INSIDE

Bright spark

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Global showcase

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Two modified Cat 966 loaders showcase how **Dixie Holdings** can adapt machinery to suit any farm's needs >> **Page 14**



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36 Einboeck's Aerostar Classic tined weeder is now available through Vin Rowe Farm Machinery.

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Issue 420



10



20



32

On the cover

14 In two transformed Cat 966 wheel loaders, Dixie Holdings showcases what it can do for its customers - in this instance, the owners of two Queensland cattle stations

News

- 4** BKT debuts tyre range
- 4** US farmers win repair rights- NFF urges action
- 5** Mathoura Bulk Grain & Fertiliser rebrands
- 5** CSIRO to partner on bean research campaign
- 6** Stag Machinery takes on New Holland Chinchilla
- 8** Deere debuts precision fertiliser system in USA
- 10** Lemken acquires South Africa's Equalizer
- 12** Bobcat adds compact ag telehandler to range
- 16** Claas rebuilds German harvester factory
- 18** New Holland debuts electric tractor
- 20** Seed Terminator to be available as CNH option
- 20** Methane powered tractor prototype debuts
- 44** Government moves to facilitate grain exports
- 44** Australia tipped for above average grain

production but delays could cause drama: ANZ

- 46** New Cotton and Wool markets to open in 2023
- 46** UQ to partner in a global grain genetics group.
- 48** Farmed salmon and prawns lead the way in Aussie fish production for 2021-22
- 48** Lobster recovering as beef has industry spread
- 50** Customers to feel milk price pressure in 2023, Rabobank predicts
- 50** New code of practice for livestock transport

Opinion

42 WAFarmers' Trevor Whittington says a policy rethink is needed to avoid a demographic crisis impacting regional Australia in future

Features

- 32** Danny Radford took his father's Fordson F from a rusted out shell to an operating vehicle
- 36** Now available through Vin Rowe Farm

Machinery, Einboeck's weeding and seeding equipment stands out

38 Bourgault has the equipment to create the precision seeding that will reap rewards at harvest time

40 Massaro Motors is approaching its half century this year, celebrating generations of service to families across Victoria's Gippsland region.

Events

- 22** evokeAG returns after two year hiatus
- 24** Highlights from Denmark's Agromek show
- 25** Diesel Dirt & Turf set for April
- 26** Funding for soil competition at shows available
- 30** Calendar of upcoming events

Regular items

- 66** Hot Deals: hand-picked deals for sale
- 97** Private advertising - list your item for sale
- 98** Index

87 **Leader of the pack**

Reliable Toyota Material Handling Australia forklifts stand out

87 **Peer network**

Torqn platform to connect industry by sharing machine knowhow

Editorial & Design
Editor Andrew Hobbs
andrew.hobbs@primecreative.com.au
Assistant Editor Lincoln Bertelli
Journalists
Cat Fitzpatrick, Anthony Wingard
Contributors
Gary Northover, Trevor Whittington,
Art Director Daz Woolley

Advertising
Business Development Manager
Asanka Gurusinha 0423 312 298
asanka.gurusinha@primecreative.com.au
Subscriptions
www.tradefarmmachinery.com.au/subscribe
Ph +61 (0)3 9690 8766 - Mon-Fri 8am-4.30pm (EST)
Email: subscriptions@primecreative.com.au
Mail: 379 Docklands Drive,
Docklands VIC 3008 Australia

Executive
CEO John Murphy
COO Christine Clancy
Operations Regina Fellner
Trader Group Sales Director
Brad Buchanan
Printing
IVE print, NSW
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News

RIGHT TO REPAIR

NFF calls for Australian arrangements after American farmers win right to repair concessions from Deere

Repair deal

Farmers in the US can now fix and repair their own John Deere machinery without voiding their warranties after the manufacturer signed a Memorandum of Understanding with the American Farm Bureau Federation (AFBF).

The MoU was signed in early January which ensures farmers now have the freedom to repair their own farm equipment, including at independent repair workshops.

And now, the National Farmers Federation (NFF) in Australia has called for Deere, the largest manufacturer of agricultural machinery in the world, as well as other OEM manufacturers, to introduce similar regulations Down Under.

"For years we've been calling for Australian farmers to have the right to repair their agricultural machinery," says NFF president Fiona Simson.

"Farmers are small business owners who should have the same right as anyone else to have their machinery repaired by their preferred repairer or make small repairs on farm without fear of voiding warranties or travelling long distances to access authorised repairs and then being burdened by their supply restrictions.

"Right to repair regimes are being introduced across most advanced economies around the world, including specific protections for agricultural machinery. It's essential the Australian Government keeps pace with the world to ensure Australian farmers can fix their machinery on-farm."

Under the MOU between Deere and the AFBF in the US, farmers and independent repair facilities will gain access to many of the unique tools and software required for maintaining vehicles for agricultural purposes.

Diagnostic and repair codes, as well as operator, parts and service manuals, and product guides, will all become available to farmers under the agreement.

Deere has also committed to meeting at least twice per year with the AFBF as well as engaging with farmers and dealers, to resolve issues as they arise.

"A piece of equipment is a major investment. Farmers must have the freedom to choose where equipment is repaired, or to repair it themselves, to help control costs."



Back in Australia, the NFF's calls for Government intervention follows an inquiry by the Productivity Commission (PC), handed down in December 2021, which found owners and independent repairers should be provided with access to repair information and diagnostic software.

The PC found that the current restrictions, whereby major OEMs dominate the repair market through network of often-expensive dealerships, were also 'causing material harm to farmers and other machinery owners'.

Limited access to repair supplies, delay times and the high cost associated with switching between machinery brands was also noted as harm experienced by third-party repairers in the Australian study.

The NFF is calling for right-to-repair measures in Australia

In the PC inquiry, 40 per cent of agricultural machinery owners surveyed reported problems accessing diagnostic software tools, and 71 per cent said they would opt for third-party repairers if given the choice.

In July 2021, similar amendments were implemented for the motor vehicle sector under the Motor Vehicle Service and Repair Information Sharing Scheme, when calls were also made for similar legislation for agricultural machinery. **ffm**

Time is often of the essence in machinery repair



BRAND

New identity

An agricultural business serving Victoria and New South Wales has rebranded as it looks towards further growth

Mathoura Bulk Grain & Fertiliser will now be known as Watson Agriculture in a rebrand and logo change that forms part of a new growth plan for the company.

The equipment supplier has branches in Echuca, Deniliquin and Wakool and has operated since 1969.

Managing director Sue Watson says the new identity better

represents the multi-generational, family-owned company.

"We wanted our brand to reflect who we are, and where we are going in the future," she says.

"As a family business, we thought it was time to change the brand to our family name, and the colours to represent what we see each day - the vibrant blue sky and green in crops."

The Watson Agriculture team

Watson Agriculture hopes this rebrand will be the catalyst for extended growth.

Currently providing farmers with fertiliser blending, freight, liquids, harvesting, bulk grain, storage, spreading, oils and farming solutions, the company says it is looking at further expansion opportunities within the agricultural supply chain.

The other aspect of Watson's expansion involves seeking new employees such as qualified drivers, diesel mechanics and administrators.

Sales and marketing manager and director Bruce Watson says this will allow the company to offer greater capabilities to its customers, along with improved efficiency and productivity across the board.

"We are well-known as a one-stop shop for all farming needs," he says.

"As a new generation takes over operation, we aim to modernise operations in a 'country way'.

"That means investing in equipment and trucks, better processes and workplace health and safety." **ffm**

The company's website has also changed to www.watsonagriculture.com.au



CSIRO researchers with cowpea cultivars at the Black Mountain research facility: from left to right: Andy Moore, Jenny Gibson, Javier Atayde, TJ Higgins, Luch Hac, Lisa Molvig and Jose Barrero (Team Leader).

Give peas a chance

A global consortium including the CSIRO will research ways to improve the yield of cowpeas, considered an important crop in Africa and Asia.

CSIRO researchers will form part of an international consortium of scientists trying to improve crop productivity and food security in sub-Saharan Africa and South Asia.

The researchers are part of the Realizing Increased Photosynthetic Efficiency (RIPE) project, which aims to improve the process of photosynthesis to help increase crop production.

The scientists will join researchers from University of Illinois, the University of California, Berkeley, Lancaster University, the University of Cambridge, the University of Essex in the UK and the U.S. Department of Agriculture, Agricultural Research Service in the project.

RIPE was also recently awarded a \$34 million grant from the Bill & Melinda Gates Agricultural Innovations (Gates Ag One) fund, continuing work started by the Bill & Melinda Gates Foundation and the USA and UK governments back in 2012.

With the demand for protein set to double in places like Africa by 2050, CSIRO scientist Jose Barrero said the focus is now on improving staple food crops, such as cowpeas, in some of the most disadvantaged and harsh landscapes on the planet.

“Cowpea is an important vegetable food source for smallholder farmers in Africa where it is a major source of protein,” Barrero says.

CSIRO scientist TJ Higgins said the goal is to develop new improved cowpea varieties that provide better yield and that help deliver global food security in light of the expected population growth in West Africa and the challenging impacts of climate change.

“Existing work by CSIRO and partners on improving outcomes for crops in Africa has already led to the development and commercial release of the world’s first genetically modified cowpea in Nigeria,” Higgins says.

“This new cowpea variety is resistant to an important insect pest, the Maruca pod-borer.

“We have already seen major improvements in crop productivity in field trials conducted by the RIPE project.

“This new research as part of the RIPE project will have an additional impact on reducing hunger and rural poverty,” he adds.

RIPE Project Director Steven Long said the work being done by CSIRO and the RIPE team was world-leading and would have profound implications for small-scale agriculture in developing countries.

“This is where science can make a real difference to human outcomes, unlocking improvements in productivity without requiring more inputs from farmers with limited resources”, Long says. 



BKT’s Ridemax FL agricultural tyre

TYRES

Rolling along

BKT has introduced a new flotation tyre suitable for multiple pieces of farm machinery

Indian tyre manufacturer BKT has added another product for the agricultural market to its lineup.

The Ridemax FL 615 is a radial flotation tyre which is designed for the free rolling wheels of agricultural trailers, tankers and spreaders.

The tyre has a steel-belted structure which provides high puncture resistance along with increased durability and high load capacity.

A rounded shoulder and large footprint area ensures reduced soil compaction, which BKT says makes it ideal for farming operations on grass.

The Ridemax FL also has low rolling resistance and top self-cleaning properties, meaning it will also be suitable for transport applications with heavy loads and weights.

BKT says the tyre had been designed to cope with the increasing distance between plots and protect the soil at the same time.

It is currently available in size 800/65 R 32. 

The tyre offers low roll-over resistance





BRAND

Dealer takeover

Stag Machinery Group is growing, having announced it will take over the New Holland franchise in Chinchilla

CNH Industrial dealership Stag Machinery Group will expand its Queensland presence, taking over the New Holland franchise from dealership Ainsworth Motors after the latter's acquisition.

Stag will open a new location in Chinchilla, north-west of Toowoomba, in February - where it will stock both New Holland and Case IH machinery.

Ainsworth Motors was acquired by Black Truck & Ag in November 2022 and is now operating as Black Truck & Ag Chinchilla.

It has been a busy period for Stag, which announced in September it would acquire SEQ Ag and Construction in Toowoomba.

This was Stag's first foray into New Holland

agriculture and construction machinery, having previously dealt mainly with Case IH equipment.

Stag co-owner Craig Brimblecombe says the opportunity to expand into Chinchilla comes at an ideal time for the business.

"The Western Downs region of Queensland has a reputation as a rich agricultural area, with a mix of cropping, livestock and horticulture, so it's a good fit for Stag's experience and expertise through our existing dealerships in Toowoomba and our team is eagerly anticipating the challenge of a new location and serving new customers" he says.

"Since 2020, when Stag Machinery Group was founded, we have established a reputation for out-

Stag Machinery Group co-owners
Craig Brimblecombe and Noel Baines

standing service and after-sales support and we're looking forward to bringing that to the Chinchilla region."

Brimblecombe, along with co-owner Noel Baines, also has its own separate dealerships - St George Machinery Centre and Ag Requirements in Gatton.

New Holland Agriculture Australia and New Zealand general manager Bruce Healy says the pair's considerable experience makes them ideal to take over the Chinchilla dealership.

"Craig and Noel have years of experience in the agricultural machinery industry in Queensland and existing New Holland customers will be in good hands with their knowledgeable and committed team when it comes to their product and service needs," he says.

It has been a busy end to 2022 for CNH Industrial dealerships with several changing hands.

In New South Wales, Casino-based Case IH dealership Days Machinery purchased New Holland dealer Agrihaus Lismore.

South Burnett Machinery in Queensland was also purchased by Cheshire Machinery, which is already a dealer of both New Holland and Case IH equipment.

O'Connors, the nation's largest Case IH dealer, expanded further by acquiring Echuca CIH in northern Victoria.

TTMI took over from Agrimac as the Case IH dealer in Warrnambool, Victoria, and will also open a branch in Colac early next year.

Back in August, it was also announced that Western Australian CNH dealer McIntosh & Son would acquire Purcher International in the state's mid-west, plus Staines Esperance in the south-east. **fm**



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UHI UHI454

45HP tractor package deal: front end loader with 4in1 bucket, 5FT slasher, 200MM bucket, 1.5M grader forks & grass stick, 300MM auger and backhoe. S29. TA1134370.
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UHI UHI554

55HP tractor package deal: front end loader with 4in1 bucket, 5FT slasher, 200MM bucket, 1.5M grader, forks & grass stick, 300MM auger and backhoe. S37. TA1145226.
\$34,990 incl GST



UHI UHI654

65HP tractor with AC cab and monitor package deal: front end loader with 4in1 bucket, 6FT slasher, 200MM bucket, 1.5M grader, forks & grass stick, 300MM auger and backhoe. S39. TA1147758.
\$39,990 incl GST



UHI UHI754

75HP tractor with AC cab and monitor package deal: front end loader with 4in1 bucket, 6FT slasher, 200MM bucket 1.5M grader, forks & grass stick, 300MM auger and backhoe. S40. TA1147759.
\$44,990 incl GST



UHI UHI1004

100HP tractor with AC cab and monitor package deal: front end loader with 4in1 bucket, 6FT slasher, 200MM bucket, 1.5M grader, forks & grass stick, 300MM auger and backhoe. S41. TA1147760.
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Bright spark

John Deere has used a Las Vegas tech show to launch an electric excavator and new precision fertiliser system

Machinery giant John Deere introduced a new technology - ExactSpot - alongside an electric excavator at CES 2023, held in Las Vegas in January.

ExactSpot uses sensors and robotics to reduce the amount of fertiliser needed during planting, by placing the fertiliser precisely on to seeds as they are planted in the soil rather than applying a continuous flow to the entire row of seeds.

This will reduce the amount of starter fertiliser needed by more than 60 per cent, Deere says.

The manufacturer used the United States corn crop as an example to show that it could save 93 million gallons (350 million litres) of fertiliser each year.

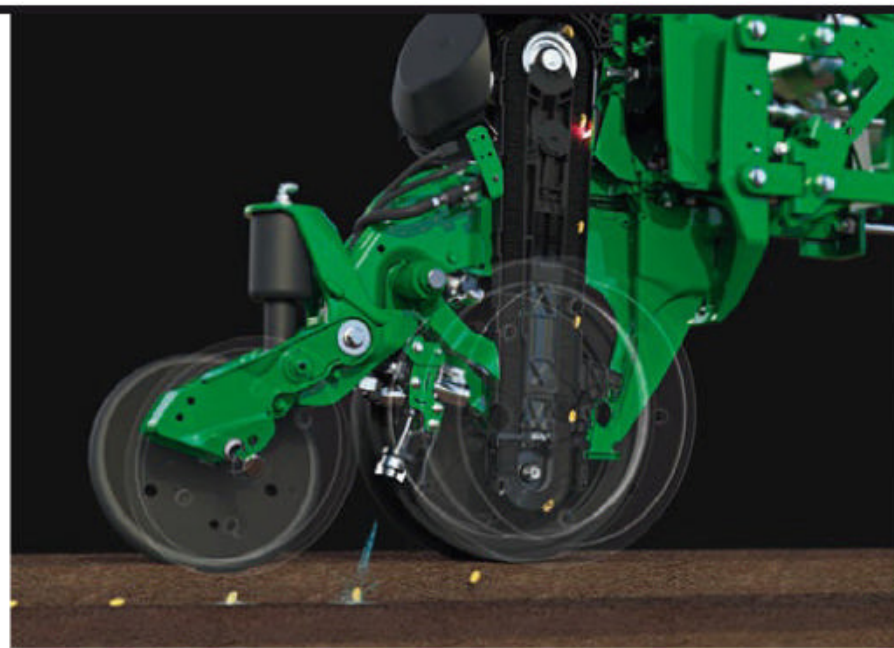
By reducing fertiliser wastage, it will save not only

costs but also reduce the chances that additional fertiliser will encourage weed growth or run off into waterways, the manufacturer adds.

John Deere chief technical officer Jahmy Hindman says both ExactSpot and the electric excavator were launched with a common goal.

"Everything we do at John Deere is focused on real purpose and real impact," he says. "This means we're developing technology that enables our customers to provide the food, fuel, fibre and infrastructure that our growing global population needs."

Deere's electric excavator -145 X-Tier -is powered by a Kreisell battery, an Austrian company which it acquired a majority stake of in late 2021.



The ExactSpot technology will increase fertiliser efficiency

Deere's 145 X-Tier electric excavator



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ACQUISITION

Level up

Lemken will acquire South African company Equalizer in a move it says will expand its product offering without overlap

Lemken's product range is set to grow after the manufacturer announced it has acquired South African company Equalizer.

The purchase means Lemken will expand its seeding offering to customers thanks to Equalizer's precision planter range.

The South African company makes precision planters with up to 36 rows and seed drills with a working width of up to 24m.

Equalizer's products focus on minimal ground disturbance to no-till farming and Lemken CEO Anthony van der Ley says they complement the seed drills already offered in Lemken's range.

"There is no overlap in our portfolios," he says.

"Equalizer offers solutions for customers and markets that Lemken has not been able to serve so far. "In terms of our growth strategy, the Equalizer planters and seeders – also in combination with air carts – close a current gap in our product range."

Equalizer was founded in the South African city of Cape Town in 2000 and says Australia is its most important export market.

Its brand name will be preserved as part of the acquisition, while the South African staff will be retained, and current management will run the company as an independent subsidiary.

"We see great potential for new products with Lemken on our side, and we look forward to our



future collaboration," Equalizer founder and managing director Gideon Schreuder says. "At the same time, we are proud that this agreement reaffirms the success and hard work of the entire Equalizer team and our local dealers over the past 22 years."

Lemken says one example of the companies offerings working together is in precision seeding, with its Delta-Row technology complemented by Equalizer's single-row technology.

The acquisition is expected to be completed by mid-year, with the first major project to be an "extensive expansion of spare parts logistics in 2023".

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TELEHANDLER

Strong showing

Bobcat has added to its agricultural telehandler range with a compact model, shown to the UK market for the first time

Bobcat showcased the smallest telehandler in its range at the Lincolnshire Agricultural Machinery Manufacturers Association (LAMMA) Show in England earlier this month.

The TL25.60 R-series telehandler has a lifting capacity of 2.5 tonnes and a lifting height of up to 5.9m and slots in below seven other models in the manufacturer's range.

"The TL25.60 may be super compact, but this model still has a full-size cab with the same dimensions as the cabs on the larger TL30.60 and TL30.70 models, which makes it the most spacious

super-compact telehandler on the market," Bobcat regional sales director John Christofides says.

The TL25.60's introduction means Bobcat now has eight models in its agricultural telehandler range, with lifting capacities between 2.5 tonnes and 4.3 tonnes and lifting heights between 5.9m and 8m.

The largest model in Bobcat's range - the TL43.80HF - was also displayed at LAMMA.

A robust build and box-welded frame makes Bobcat's TL25.60 extra tough despite its compact size.

Intuitive control layout, an all-in-one joystick, and automatic transmission makes operation easy.

The TL25.60 is the smallest agricultural telehandler in Bobcat's range



The 5-inch (12cm) LCD screen displays all necessary data, while there is 360-degree vision inside the roomy cabin.

A low centre of gravity ensures maximum stability, while productivity is bolstered by the ability to shift from Smooth Drive to Dynamic Drive and increase the speed of all gear shifting.

Using Flex Control means the hand throttle manages forward speed independently from the engine speed, further increasing efficiency and precision.

Another benefit of the TL25.60's compact size is the tight turning circle, helping to make it ideal for use in narrow spaces.

It can also be used with a wide variety of attachments. **fm**



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Both 966 loaders are headed to cattle stations

Loads of potential

Two models, two transformations: Dixie Holdings customises two Cat 966 loaders for the individual needs of separate Queensland cattle stations, in a showcase of what the company can do

Customising machines to meet farmers' needs, and handling every step of the process, is the bread and butter of what Dixie Holdings does.

A recent example of two Cat 966 loaders being modified for different customers almost simultaneously, but in unique ways, helps to showcase the depth of what the Queensland-based business offers.

Dixie's biggest advantage, according to company director Tom McDonald, is its ability to be a "one stop shop" for people wanting customised equipment, as the two 966 loaders show.

With one machine bound for a cattle station north of Cloncurry and the other to a cattle station north of Richmond only a couple of hundred kilometres away, the two customers were able to share delivery costs of their modified loaders - just one example of how Dixie works to maximise benefits for its customers.

"In both of these circumstances we sold the loader, built all the attachments, did the modifications to the machines and delivered them," McDonald says.

"That's what we pride ourselves on doing, because I don't think many other businesses have the facilities to do that.

"We've got control from the first day to the last day in making sure our customers get a good product, get it in a timely manner and get something that's well priced and good quality."

McDonald's last point about machines being good quality is ultimately the most important, and Dixie Holdings puts in plenty of work to ensure its customers are receiving a reliable and versatile machine which meets their needs.

He says loaders have increased in popularity during the last few years and are now at the point where Dixie sells as many loaders and loader attachments as they do dozers.

He attributes this to farmers communicating to each other and becoming more aware of their capabilities and how they can be customised to suit different applications.

In the case of the two 966 loaders Dixie has delivered to the Queensland cattle stations, one is a K Series and the other a slightly older H Series.

One has a folding stick rake, which is ideal for transport, and the other has a fixed stick rake, while only one of the customers opted for a poly pipe layer.

"That's designed for basically running your irrigation poly pipe," McDonald says.

"They'll remove the outside tynes and just fit the centre poly pipe layer and tyne. "Traditionally they would get a grader and grade out a ditch, then they would lay the poly pipe and backfill it with the grader.

"By having a pipe layer, you rip and bury the pipe in one process so you don't have to backfill it."

The K Series loader has also had a factory CAT DPF delete undertaken to bring it back to a Tier 3, which McDonald says is the preference for many farmers as it minimises the chance of DPF or electrical issues which would need a dealer technician to repair.

Both machines come with standard GP buckets with a straight edge on them, which Dixie has converted by fitting them with a tooth adapter kit.

"This is a popular option for farmers as they like using the machines to dig new dams and dig out existing dams," McDonald says.

"We fit tooth adapter kits to the buckets and then we fit our own design of hydraulic ripper to the back.

"Traditionally wheel loaders have a counter-

The two loaders were transported and delivered together to remote Queensland customers





weight bolted to the back of the machine, so we design rippers to be the same weight as a counter-weight, but obviously having the option of ripping and scarifying the ground.

"If the farmer wants to dig out a dam, he can rip the ground first to break up the soil, then use the bucket to dig out the soil.

"Farmers also want it for stick raking, so they'll use the stick rake for pushing over scrub and regrowth and pushing into piles.

"They will also use the rippers for pulling out tree roots that they can't get with the stick rake or bucket.

"They'll back up and they'll be able to pull out bigger tree stumps and tree roots with the rippers as well."

Versatility is the name of the game, particularly for these customers located on remote cattle stations.

As McDonald points out, staff numbers are generally limited and therefore the onus goes on to the machinery to increase overall efficiency.

He says having a multi-use loader saves a lot of travel time compared to using a dozer, or multiple pieces of other equipment.

Dixie Holdings can add a variety of attachments when customising loaders, as illustrated in all images above and below

"It can take you a day to track somewhere with a dozer which will take you a couple of hours in a loader," he says.

"You'll go from your homestead to where you've got to carry out your work, you'll take the stick rake and then you'll unpin it and leave it in the paddock.

"You might then desilt some dams, dig some new dams or clean up some roads and then you can hook up to your stick rake, and clean up some country, clear some fence lines and then once you finish the job you head back to the homestead."

Another benefit of the 966 loader specifically, McDonald says, is that it is the largest loader that can be legally carried on a tri-axle drop deck trailer and in road train combination, in terms of both weight and dimensions which makes them an easy machine to move from site to site with its attachments. **fm**

Dixie's full range can be viewed at www.dixieholdings.com.au, while custom needs can be discussed by calling 1300 0 DIXIE (34943).





MANUFACTURING

Fresh facility

Claas has knocked down and rebuilt its combine harvester production facility in Germany in a move it says will help increase efficiency

Almost \$70 million has been invested into Claas' combine harvester factory in Germany, which the manufacturer says will increase production efficiency of its most complicated item.

The €44 million (A\$68.5 million) knockdown-rebuild project was completed in just 22 weeks and has created a new 15,000 square metre hall to replace two assembly lines built in the 1950s.

Increased output means the factory, located in Harsewinkel in Germany's north-west, can now produce up to 28 combine harvesters per shift.

The ceiling heights are more than double - reaching 14m in parts compared to between 4.2m and 6m at the previous facility.

This means functional checks on the Lexion series' grain hopper can now be conducted, while also catering for the extra output required after the manufacturer launched its Trion harvester.

Claas Harvest Centre Lexion product manager Steve Reeves says the upgrades mean up to 30 different models and specifications can be efficiently assembled on the same line simultaneously.

"It incorporates the very latest production, logistics, assembly and IT technologies to ensure seamless sub-assembly, delivery and assembly and tracking throughout the entire process," he says.

"Sub-assembly lines deliver major components, such as the threshing unit, residual separation, grain

Claas has upgraded its combine harvester factory in Harsewinkel, Germany to have 14m ceilings and a 15,000 square metre production hall.

tank or unloading auger, and necessary parts to each assembly station exactly as they are required.

"To give you some idea of the complexity of this process, each combine harvester incorporates more than 15,000 individual parts."

Each machine moves silently down the assembly line on electric-powered automated guided vehicles.

Completed machines then pass through six modern mechanical, hydraulic and electrical test benches prior to being commissioned.

Claas says the new hall alone saves 470 tonnes of carbon dioxide emissions per year, thanks to the use of efficient energy management, insulation, LED lighting and ventilation.

Claas had also previously announced upgrades to the Lexion 8000 and 7000 harvesters, which will be built in Harsewinkel and arrive in Australia in 2023.

They will boast a greater tank volume, improved operator assistance systems and a brand-new cab, in addition to a more powerful engine in the top-of-the-line Lexion 8800 model that now offers a 16.2-litre MAN D42 six-cylinder engine that produces a maximum output of 700hp (522kW).

fm

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TRACTORS

Electric blue

An electric 120hp New Holland tractor unveiled late last year provides an insight into tractors of the next generation

New Holland unveiled prototypes of a semi-autonomous electric tractor at parent company CNH Industrial's Tech Day, held last year in the United States of America.

The New Holland T4 Electric Power tractor is expected to go into commercial production at the end of 2023, with the manufacturer saying the model will offer several major differences to existing electric tractors.

CNH says the T4 Electric Power will help reduce both operating costs and noise by 90 per cent, with vibration also substantially dampened.

But the tractor is also powerful, producing up to 120 horsepower (89kw) and 440Nm of torque and being able to travel at speeds of up to 40km/h.

Its battery delivers up to a full day of operation, CNH says, and the tractor can reach maximum power after just one hour on a commercially available fast-charging system.

The tractor's electrical outlets support daily farm tasks such as welding and drilling, CNH adds, while it also doubles as a backup power generator for daily or emergency needs and provides energy for electric implements.

CNH Industrial chief digital and information officer Marc Kermisch says the T4 Electric Power tractor is the ideal solution for lower horsepower operations.

"It is suited to mixed farm, livestock, municipality, orchard and specialty applications," he says.

"We know our customers are eager to adopt this type of product, so it makes perfect sense for us to continue our Ag electrification journey with this platform."

The T4 Electric Power also has what the manufacturer describes as "world first" autonomous features and automated capabilities, which are enabled via sensors, cameras and control units on the roof.

These include remote activation of the tractor via a smartphone app and offboard digital services



The autonomous features are aided by sensors and cameras on the T4 Electric Power's roof

to let farmers operate the tractor from anywhere, while also monitoring its performance and battery level.

It has a mode which allows operators to sync machines to work together, a fleet management system to assign tasks to each piece of equipment and an implement recognition system to ensure the tractor easily links up with the required attachment.

A 360-degree perception system detects and avoids obstacles while telematics and auto guidance keeps all functions in check.

While the prototype is branded New Holland, the model will also represent Case IH.

CNH teams in the USA and Italy worked together on the project, while also collaborating with USA-based Monarch Tractor, and the result was a halving of the prototype's development time.

Monarch and CNH Industrial signed a multi-year licensing agreement in November 2021.

It has been an exciting period for Monarch as well, which is now delivering the first units in its previously announced electric and driverless tractor.

The manufacturer first told the world about its plans for "the world's first fully electric, driver

New Holland has introduced its T4 Electric Power prototype tractor

optional tractor", the MK-V, in 2020 and has secured more than US\$110 million in funding, which has led to the first tractors now rolling off the production line.

American alcohol producer and importer Constellation Brands has purchased the first six Monarch MK-V tractors, which are fully electric and can perform pre-programmed tasks without a driver.

Monarch CEO Praveen Penmetsa says this tractor, plus their work on New Holland's T4 Electric Power tractor, are part of the company's goal of producing sustainable technological solutions.

"It's an exciting year for Monarch Tractor as we rapidly expand the offerings available to farmers in various industries," he says.

"The work we've been doing with CNH Industrial has been remarkable and we're proud of the role we have played in the development of the T4 Electric Power utility tractor."

Monarch's MK-V electric tractor





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▲
The Seed Terminator team has expanded its offering to Case IH and New Holland customers

WEEDS

Weed weapon

Locally made weed control product Seed Terminator will now be available to CNH Industrial customers

An Australian-made combine harvester attachment which terminates unwanted seeds before they germinate will be made available to Aussie dealers of products from CNH Industrial.

The Seed Terminator, which is designed and made in South Australia, is a mechanical device which targets herbicide-resistant weeds.

Ongoing university trials in both Australia and overseas show the device can kill up to 99 per cent of rye grass seeds, which the company says are notoriously tough.

Combine harvesters made by CNH Industrial brands Case IH and New Holland will now be compatible with the Seed Terminator, with the attachment able to be ordered as an extra with 2023 models, while customers with existing harvesters can discuss their requirements with their dealer

Seed Terminator’s website also lists multiple John Deere and Claas models the product is compatible with.

The Seed Terminator was introduced in 2016 and there are now over 650 machines operating across three continents.

Globally, there are 267 weed species that are resistant to 165 different herbicides, the company says, and Seed Terminator inventor Nick Berry says the product is an important way of tackling these weeds.

“These may be the only herbicides we ever have to control weeds and allow us to produce food, and we’re destroying them at an alarming rate,” he says.

“We need technology to preserve those chemicals, allowing us to produce enough food, to feed the world.

“We started this company on the principle of getting this technology to as many farmers as possible as quickly as possible, and as economically as possible. This agreement with CNH Industrial Australia is the next significant step.”

In 2016, Grain Research Development Council estimated weeds cost Australian grain growers about \$3.3 billion annually while also leading to yield losses of 2.76 million tonnes. **fm**



HARVESTER

Future power

▲
The T7 Methane Power LNG offers a powerful engine and New Holland’s standard tech features

New Holland used parent company CNH Industrial’s Tech Day to introduce an updated methane-powered tractor prototype

A major prototype launch from CNH Industrial’s Tech Day was New Holland’s T7 Methane Power LNG.

Operating on liquified natural gas, the tractor offers 270hp (201kW) which CNH says is the same power and torque as a diesel tractor.

By converting methane into liquified fugitive methane, it prevents methane from entering the atmosphere and reduces a farm’s carbon footprint by becoming a “better than zero carbon” biofuel.

While this is not New Holland’s first methane-powered prototype, it has significant improvements to previous versions, including a fourfold increase in fuel capacity over the previous iteration - the T6 Methane Power CNG.

It is also fitted with New Holland features including the PLM Intelligence precision technology, IntelliView touch screen and SideWinder Ultra armrest.

New Holland Agriculture tractor product management Oscar Baroncelli says the operator will receive the full New Holland experience, with all the manufacturer’s innovations, plus providing the world with an insight into future tractor design.

He says he is most proud of “its ability to run effectively and reliably on a fuel independently produced on farm, outstanding operator environment with best-in-class cabin, and the cutting-edge styling which includes LED lights and skydome roof which, while a prototype, provide a glimpse into the possible future styling with benefit for our customers.”

Having already been tested on a variety of farms across many applications, CNH says it plans to mass produce and commercialise the prototype, saying it will be the world’s first LNG tractor.

CNH partnered with United Kingdom-based com-

pany Bennamann, acquiring a minority stake in its research, development, engineering and manufacturing arm in 2021.

It is through Bennamann’s approach that New Holland could develop this tractor.

Firstly, the livestock manure is transferred to a covered slurry lagoon or tank where the emitted fugitive methane is captured, purified and converted into liquified methane.

Bennamann’s cryogenic storage tanks keep the methane as a liquid at -162 degrees, which produces a source of clean power for the tractor.

This method also means LNG can be transported to farms, similar to how diesel is transported, and enabling easy in-field refuelling where needed.

Aesthetically, the T7 Methane Power LNG - along with the T4 Electric Power tractor also released at Tech Day - has a new ‘clean blue’ colour scheme to add an extra point of difference to conventional diesel tractors.

Baroncelli sums things up by saying the T7 Methane Power has all the benefits of a diesel tractor, plus more.

“It offers the same autonomy and power as its diesel counterpart,” he says.

“When it’s time to refuel, the process is also exactly the same.

“What makes it different, however, is its vastly better sustainability, as its able to run on liquified biomethane produced on farm.” **fm**

▼
Refuelling is as easy as with a diesel tractor



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Great minds

The agrifood tech industry will come together in Adelaide for the first evokeAG conference in three years

More than 100 speakers and 1,500 delegates will descend on the Adelaide Convention Centre in February for the evokeAG conference.

The two-day event is run by AgriFutures Australia and provides an opportunity for the Asia-Pacific region's agrifood tech community to come together.

evokeAG is normally held annually, however the COVID-19 pandemic forced the cancellation of both the 2021 and 2022 events.

This year's theme is 'Down to Earth' and AgriFutures Australia managing director John Harvey says the program has been designed to help move the industry forward.

"The 2023 evokeAG program has been carefully constructed to review the needs of our rural industries and challenge our perception of what the sector can achieve in the next five to ten years," he says.

"The team has worked hard to gather the world's best change agents in one room - entrepreneurs, innovators, investors, researchers, and producers - who will inspire new ways of thinking and drive a more profitable, productive, and sustainable future for Australian agriculture.

"Our 2023 event is a celebration of the agritech innovations - and innovative thinking - that can change the way we produce food and fibre."

The program includes a number of keynote presentations and panel discussions alongside the exhibition and Startup Alley.

During the event, 40 startups will have the opportunity to pitch to investors and the agrifoodtech community - as well as visiting media.

"The startup program will provide an impressive display of game-changing technologies and solutions for agriculture and our food system," Harvey says.

"The startups and scaleups will have the opportunity to connect with local and international customers, investors and potential partners."

Startups represent both Australia and overseas and include Israeli company Beewise, which created the world's first autonomous beehive and was named by Time magazine as one of the best inventions of 2020.



Another overseas visitor is French agricultural robotics company Naïo Technologies, which will introduce its electric and autonomous robots designed for horticulture and viticulture.

Startup Showcase will allow seven companies the chance to promote their products on stage, for which both Beewise and Naïo Technologies have been selected.

Another 28 companies can show their innovations to all delegates throughout the two days.

These are:

- Agbot, QLD
- Agronomeye, NSW
- Bee Innovative, NSW
- BioScout, NSW
- Bondi Labs, VIC
- Cherrp, SA
- Demand Side Instruments, France
- Downforce Technologies, United Kingdom
- FarmLab, NSW
- Gaia Project, NSW
- GoMicro, SA
- Hillridge Technologies, NSW
- Leaf Agriculture, USA

^
This year's evokeAG event will be held in Adelaide

^
AgriFutures Australia managing director John Harvey

- LLEAF, NSW
- Onside, New Zealand
- Optiweigh, NSW
- Pairtree Intelligence, NSW
- PostHarvest, NSW
- PPB Technology, ACT
- Rainstick, QLD
- Rubens Technologies, VIC
- SWAN Systems, WA
- TruckTracker, QLD
- UBI Meat, Canada
- VetChip, WA
- Whole, WA
- Zetifi, NSW
- Zondii, NSW 

evokeAG is scheduled for February 21 and 22 and will be held at Adelaide's Convention Centre with tickets available through www.evokeag.com

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Great Dane

Making a welcome return to the European agri trade show circuit, the Agromek Show in Denmark welcomed over 40,000 visitors to the event. Our European correspondent Chris McCullough was there

Forcibly cancelled in 2020 due to the COVID-19 pandemic, Agromek is regarded as the biggest agricultural trade show in northern Europe and had 542 exhibitors introduce their machines, innovations and technology over four days.

"After four days with 40,015 visitors from home and abroad, smiling exhibitors, a good atmosphere and a great interest in both the stands and the record number of activities, you can only be very satisfied as an organiser and professional," Agromek chairman Sten Andersen says.

"Agromek is back in full force as our common meeting place and gathering point. This is something special and something we can all be proud of."

Touring the stands, there were many new ideas and machines that will make farming easier and smarter, many of which won Agromek Star awards.

Agro Bag fertiliser bag opener

Agro Bag has designed a unique tool that makes it easy to empty big bags of fertiliser safely and securely from inside the cab. The machine sits inside the fertiliser sower on brackets either as a single unit or doubles up for bigger spreaders. When the operator sets the bag on top of the tool it cuts the bag open. Agro Bag says they have over 100 units already sold. The downside is the single unit weighs 200kgs.

Kobzarensko TZP-27 Atlant

The Ukrainian trailer manufacturer exhibited its latest TZP-27 Atlant trailer. The horizontal unloading system allows operators to unload the trailer without lifting the body, and the removable tailboard makes it possible to use the trailer for transporting goods, spreading organic fertilisers, loading grain, and harvesting sugar beets. This model weighs 8.2 tonnes empty and has a further capacity for 18.8 tonnes. It measures 7.1m long, 2.3m wide and 1.95m tall.

Wacker Neuson TH412e

The new TH412e electric telehandler from Wacker Neuson was on display with a load capacity of 3.3 tonnes. The lithium battery has a runtime of up to 3.1 hours with the standard battery and up to 5.2 hours with the optional battery. The telehandler features

a Battery Management System (BMS) that monitors the lithium-ion battery, increases its efficiency and safety, and eliminates deep discharge. Charging the machine is easy via the hatch at the rear which is easily accessible.

Matador electric wheelbarrow

If you thought you had seen it all, think again. Matador had on show its electric wheelbarrow with 90L capacity. This unit has an electric drive that helps operators run through softer terrain and holds the wheelbarrow back from running off loaded down a slope. It has an extra wide 400x130mm puncture proof tyre, RVS-rim and a 7mm thick plastic tray. The frame is made from magnesium reinforced aluminium with continuous wide outstanding legs for high lateral stability. The more resistance when pushing the wheelbarrow, the more the engine takes over. When loaded, the lifting weight is 25 per cent less than similar wheelbarrows. The special integrated motor has a capacity of over 600W and takes three hours to charge for eight hours use.

MSR Plant Technology stem lifting

Three Agromek Stars were awarded to MSR Plant Technology for its stem lifting and separation function, an optional module for its Crown Crusher, the mechanical growth stop system. The unit allows the application of mechanical growth stop in potatoes whose tops are lying down or intertwined, species that feature drooping stems or stems lying on the ground on account of heavy rain, machine operation or being covered with soil. The module makes it possible to carry out mechanical forced withering of all types of potato plant under the right conditions, and to minimise the risk of contamination at the same time.

Claas Torion 1611

Claas received one star for its latest Torion 1611 wheel loader at Agromek. The machine is part of a set of three new models that feature even stronger breakout force, greater hydraulic output and a more powerful engine. The new loader also has a newly designed lifting arm, where two previous kinematics have now been consolidated in a single arm. The

Z-kinematic has now received an electronic control of parallel driving that can be on/off coupled for compensation of the integrated geometry which is normal in the Z-kinematic.

Agrifarm 0-Emission system

Another Agromek two star winner was Agrifarm for its Zero-Emission system which it says solves the green transition issue in the world of livestock production. The Zero-Emission system is a concept which significantly reduces three emissions: methane, ammonia and odour. The opportunity for dispensing more straw helps enhance animal welfare. The system involves a combination of innovations for reducing the emission of odour and ammonia in livestock housing. The slurry is quickly removed with this new line traction and only a small amount will remain. The slurry is collected in pre-fabricated funnels. A vacuum system draws off the slurry from the funnels. This ensures that slurry with high dry matter content is transported and thus slurry with a higher gas potential.

Danfoil SilverGlider

Two stars went to Danfoil's SilverGlider, a completely new, lightweight hybrid spray boom structure. Boom stability and control were the driving considerations behind the new design. The boom can operate separately, both above and below horizontal, and the light weight makes a difference on uneven terrain. SilverGlider is available in a two-fold version from 24m to 30m, fitted on a ConCorde trailed field sprayer and the self-propelled AirForce 1, as well as in a 24m to 36m model on the giant 10,000L AirHammer.

CMN Maskintec Intelligent depth control of row cleaning section

This machine carries out hydraulic intelligent depth control of tines on row cleaning sections, the depth of which can be controlled individually using ultrasound sensor technology. Hoe precision is significantly increased via the installation of ultrasonic sensors which continuously adjust hoe depth section by section. This depth control is completely new and unique. This option is available on new machines from 3m to 9m. **fm**



- A** Claas Torion 1611
- B** Wacker Neuson TH412e
- C** Agrifarm O-Emission system
- D** Agro Bag fertiliser bag opener
- E** Danfoil SilverGlider
- F** Kobzarenko T2P-27 Atlant
- G** Matador electric wheelbarrow
- H** MSR Plant Technology stem lifting
- I** CMN Maskintec
Intelligent depth control
of row cleaning section



Strength in numbers

Diesel Dirt & Turf is the best way of reaching decision makers, with big industry names coming together in Sydney in April

It's normal for people to enjoy being in the company of others seeking similar experiences or sharing the fun. In addition to the social aspect, grouping of attractions enables quick comparison with what is being offered.

This crowd effect is what works so well with the National Diesel Dirt & Turf Expo. Being able to compare technology, equipment and services and mixing with like-minded people is the reason why so many industry visitors are attracted to this event.

Large crowds of people who come from the earthmoving, construction, grounds maintenance, safety, financial services, asset management, transport and material handling industries visit the Expo to make informed purchasing decisions.

It is this concentration of qualified sales prospects that makes a lot of sense to exhibitors to be at Australia's largest construction Expo.

Room for growth

When the National Diesel Dirt & Turf Expo moved to the Sydney Dragway, the plan was to acquire a site that would accommodate growth in exhibitor numbers.

While the number of exhibitors and product offerings is already comprehensive, the upgraded Sydney Dragway site provides significant space for expansion.

With many exhibitors booking the same space year after year, expansion capability of the Expo site presents an excellent opportunity for new exhibitors to come on board and secure a site for 2023.

Whether you are a small manufacturer, distributor or a large corporation, the Diesel Dirt & Turf Expo is where everyone will come to see what is on offer and compare the value to their business.

Join industry leaders

What type of companies exhibit at Diesel Dirt & Turf?

Associate sponsor Pickles Auctions has been a major supporter of the event for many years, staging a huge Saturday afternoon auction that draws big crowds who eagerly snap up the lots on offer.

Another example is Delta Equipment that supplies the Italian-made Femac S5 hydraulic skid steer mulcher attachment designed for standard and high flow skid steers and tracked loaders to clear fire-breaks, brush, trails, road edges, park maintenance and tall vegetation.

It also has the Probst round pipe grab RG75125 Safelock attachment for pipe concrete installation where large concrete pipes may be safely and efficiently moved, placed and set.

Norm Engineering is a foundation exhibitor of the Expo and has seen successful growth through its presence. The Norm Engineering 4-in-1 bucket has been built to withstand tough local conditions. They will help to scoop and carry soil, with wide opening jaws allowing for easy dumping.

These buckets have been designed with an extra heavy-duty flat floor making it stronger, easier to fill and empty, in comparison to the conventional hip floor design.

Every productivity solution

New exhibitors will find themselves in great company with financial and insurance leaders such as Credit One Finance, Finlease Australia, SatisFinance, Shannons and AEI Insurance brokers.

The Expo is also well represented by exhibitors in fleet management and maintenance, industry recruitment and specialised lubricants suppliers such as Anglomoil and Prolube lubricants.

Other exhibitors specialise in material handling, safety, equipment hire, equipment trailers, trucks and hydraulics, haul trucks and specialised road equipment. There are professional tools from sup-

pliers such as Repco Commercial, tyres, equipment tracks and surface protection, access platforms, couplers and tiltrotators. Then there are also agricultural and open space management equipment, mowers, trenchers and slashers.

"Sponsors like gold sponsor Komatsu and gold media sponsor *Earthmovers & Excavators* magazine/ *TradeEarthmovers* have played a major role in the development of the Expo," expo manager Marti Zivkovich says.

"Associate sponsorships are a great way to increase your visibility, so if you would like to join our associate sponsors Norm Engineering, Pickles, *Earthmoving Equipment Magazine*, XCMG, What-If and Record TIME, contact us now."

Sites still available

The 2023 National Diesel Dirt & Turf Expo will take place Friday 21, Saturday 22 and Sunday 23 April 2023. Visitor entry including car parking is just \$10 per adult and entry is free for children under 16. **fm**

Tractors and other farm machinery will also be on show





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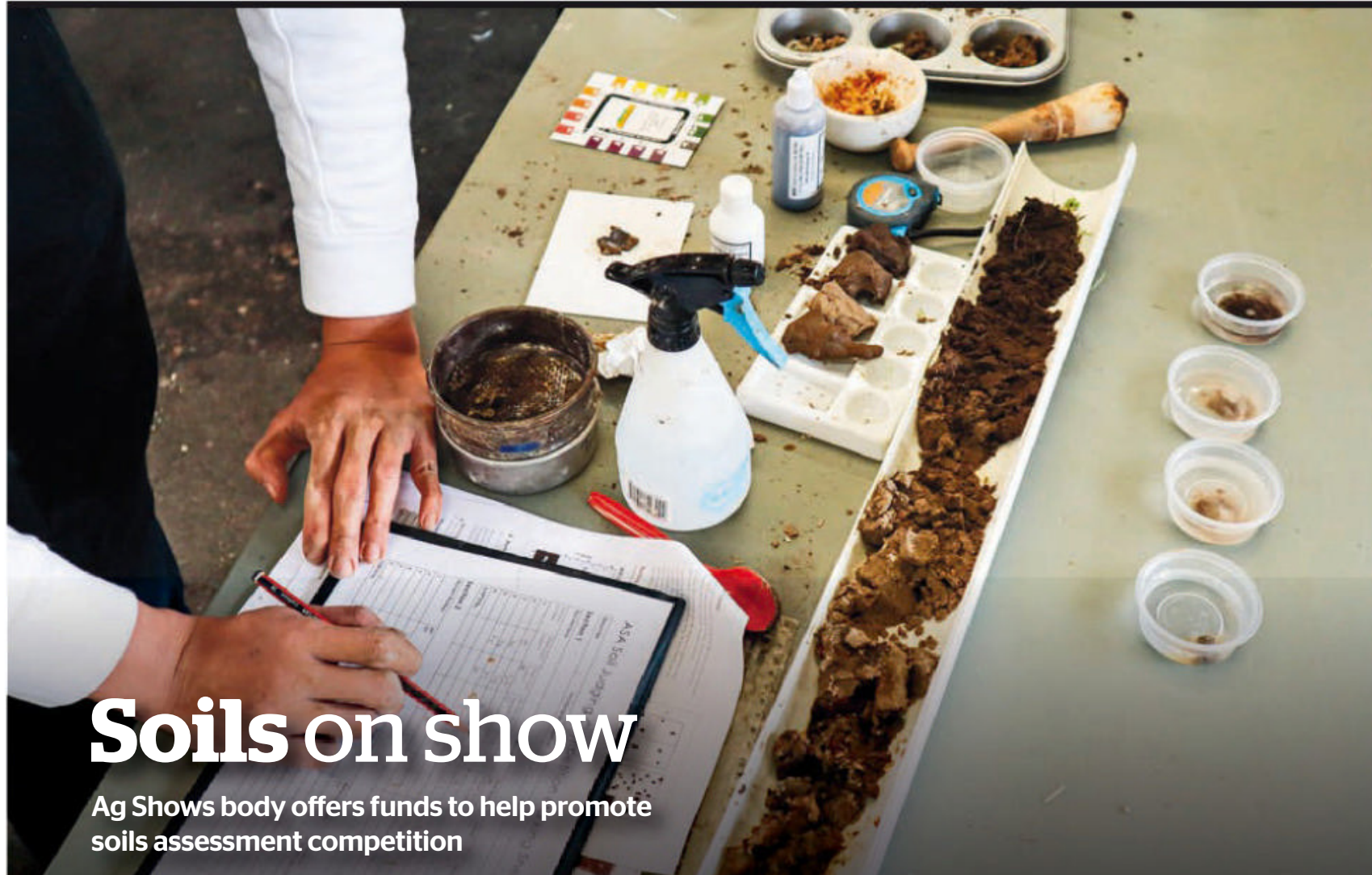
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Soils on show

Ag Shows body offers funds to help promote soils assessment competition

Agricultural Shows Australia (ASA) is offering a grant of \$3000 to royal shows and state entities across Australia to help fund grains and soils competitions for people aged under 25.

The ASA has developed a new Grains, Oilseeds, Pulses and Soils Learning Program which it hopes will help young people learn about soil quality and its importance to the entire agricultural sector.

The funding is to encourage local shows to host the competitions within the newly developed guidelines and "how to guides" of the course; and to help the royal shows and state bodies host finals.

The project is jointly funded through Agricultural Shows Australia, and the Australian Government's

National Landcare Program. The Primary Industries Education Foundation Australia is partnering with the initiative as it is rolled out across Australia.

After a successful trial at the Royal Adelaide Show in 2022, the competition will again be trialled in ASA's National Young Judges finals to be held at the 2023 Royal Launceston Show. Big plans are in place for the program's long-term future.

To learn more about the grains and soils competition, and the funding opportunities, head to agshowsaustralia.org.au

For more information about the competition visit:
<https://agshowsaustralia.thinkific.com/courses/living-soils-in-australia>
<https://agshowsaustralia.thinkific.com/courses/grains-oilseeds-pulses-netquest>

Competitors assess soil samples during a competition trial at the Royal Adelaide Show in 2022.

ASA executive officer Katie Stanley says with the Royal Adelaide Show event being a success, the national group had committed to a national young judges competition in 2024 focussing on grains.

"We have a lot of resources now available that are there to help young people understand what we're trying to achieve with these competitions and how they can participate," she says.

"It's very easy for a local show to run, so we're hoping all local shows run one in 2023."

Instructional videos, online guides, handbooks and factsheets developed by ASA also equip show organisers with all the information they need to run a successful competition. From the regulations and checklists to judge's markups, it's all covered.

Over 40 minutes competitors use a variety of techniques to determine a soil type and its key features. They deliver their verdict during two-minute presentations, with the winner's title being presented to the competitor who comes the closest to the official soil classification. **fm**

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Events calendar

Here are upcoming field day and agricultural events for 2023. Information was current as of going to press

Berry Show - Berry

The Berry Show is an annual agricultural show held in the picturesque rural town of Berry on the NSW south coast. The show has been promoting excellence in the local community for over 130 years. Attractions include large cattle and horse shows and fantastic entertainment such as a rodeo, woodchopping, the Young Farmer Challenge, Showgirl announcement and fireworks.
When: February 3-4, 2023
More info: berryshow.org.au

Royal Canberra Show - Canberra

The ActewAGL Royal Canberra Show, Canberra's largest all ages event, is staged annually by the Royal National Capital Agricultural Society. While having agriculture at its core, the Show has broadened over the years to reflect more entertainment, educational features and exhibitions, ensuring that there is a vibrant mix of 'city meeting country' and 'country meeting city'.
When: February 24-26, 2023
More info: www.canberrashow.org.au

Wimmera Machinery Field Days - Longerenong

Wimmera Machinery Field Days is hosted at the purpose-built Wimmera Events Centre at Longerenong near Horsham in western Victoria and is one of Australia's largest agricultural and agribusiness trade shows.
When: March 7-9, 2023
More info: wimmerafielddays.com.au

King Island Show - King Island

Experience King Island's major annual event, the King Island Agricultural, Horticultural & Pastoral Society Show. Visit the pavilion for the arts and crafts display and wool judging, tasty food is for sale (the donuts are a must!). There is cattle judging, horse riding displays, pet competitions and so much more.
When: March 7, 2023
More info: kingislandshow37374937.wordpress.com

Wagin Agricultural Show and Woolorama - Wagin

Over two days, the community comes together to showcase the diversity of agricultural life in WA and how 'ordinary things can be done extraordinarily well'. It is a fantastic day out for the whole family with lots to see and do, including prestigious livestock, art, photography, craft, home industries, fashion, rides and entertainment for all ages, plus a spectacular Rodeo on Saturday night.
When: March 10-11, 2023
More info: www.woolorama.com.au

Central Districts Field Days - Manfeild, NZ

Central Districts Field Days is a unique agriculture event where communities come together to connect, discover and experience the future of New Zealand's primary industries. From farmers and foodies to tech heads and townies New Zealand's largest regional field days has something for everyone. The event showcases, cutting edge machinery and equipment, the latest developments in rural innovation, FXM shows, lifestyle stalls, regional food and local brews.
When: March 16-18, 2023
More info: cdfielddays.co.nz

South East Field Days - Lucindale

Held at Yakka Park, Lucindale, there will be farm machinery and other local business exhibitors, dog trials, displays, competitions and entertainment for all the family.
When: March 17-19, 2023
More info: www.sefd.com.au

Toowoomba Royal Show - Toowoomba

The Toowoomba Royal Show is an unrivalled production of the very best in entertainment and agriculture displays on the Darling Downs since 1860. Every year has new entertainment so bring the family and enjoy world class acts, competitions and exhilarating rides in sideshow alley.
When: March 31-April 1, 2023
More info: toowoombashow.com.au

Karoonda Farm Fair - Murray Bridge East

The Karoonda Farm Fair is an annual two-day event showcasing local, state and interstate farming and general interest products, services and events. With over 300 exhibitors each year, and crowds of around 7,000-10,000 over the two days, Karoonda Farm Fair caters for everyone.
When: March 31-April 1, 2023
More info: farmfair.com.au

Seymour Alternative Farming Expo - Seymour

Held in the heart of Victoria at Kings Park, Seymour, the Expo features approximately 500 exhibitors and attracts 20,000 visitors across three days. Explore the latest technology, practices and trends in small and backyard farming, visit the animals and enjoy the shopping, food and entertainment.
When: March 31-April 2, 2023
More info: seymourexpo.com.au

For the full year's calendar of events: tradefarmmachinery.com.au/events

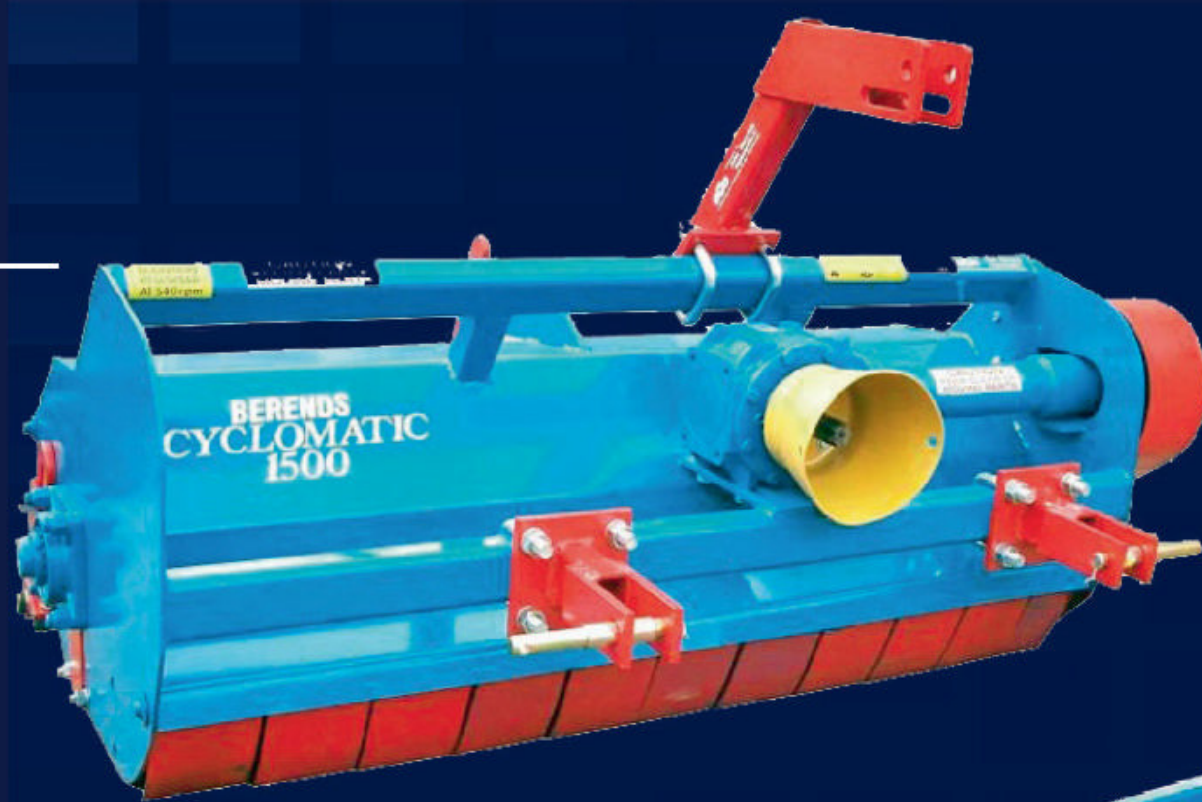
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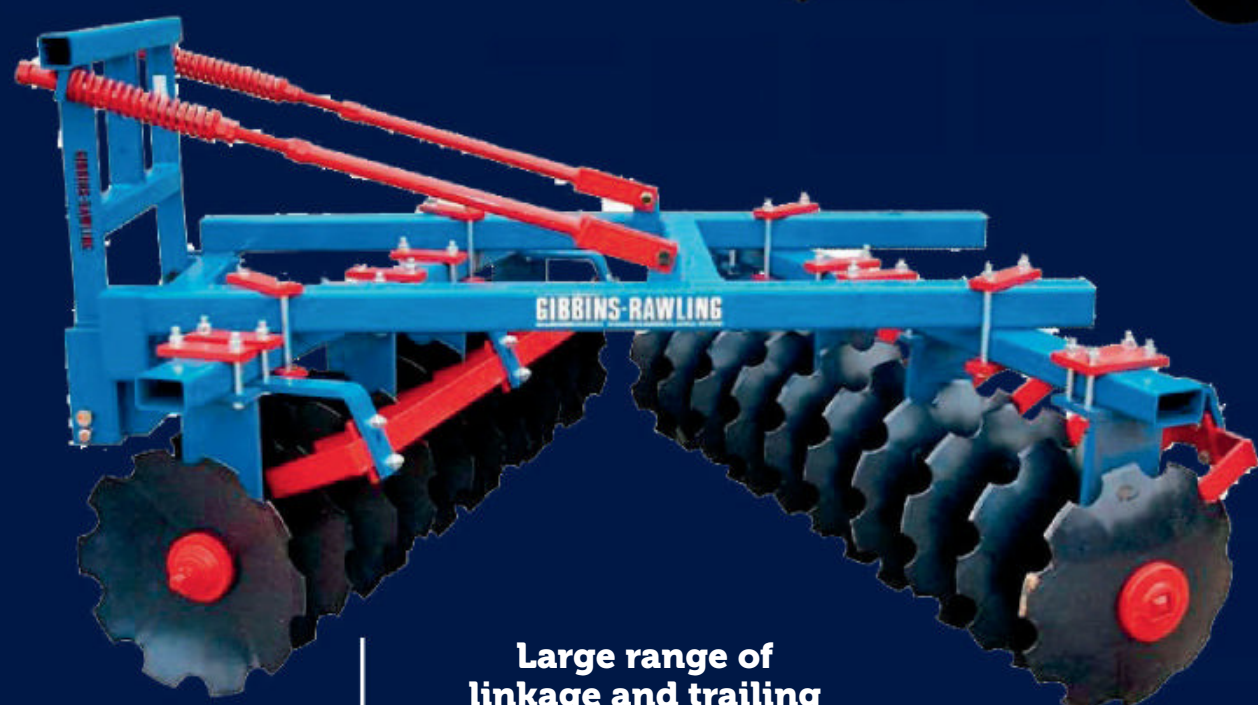
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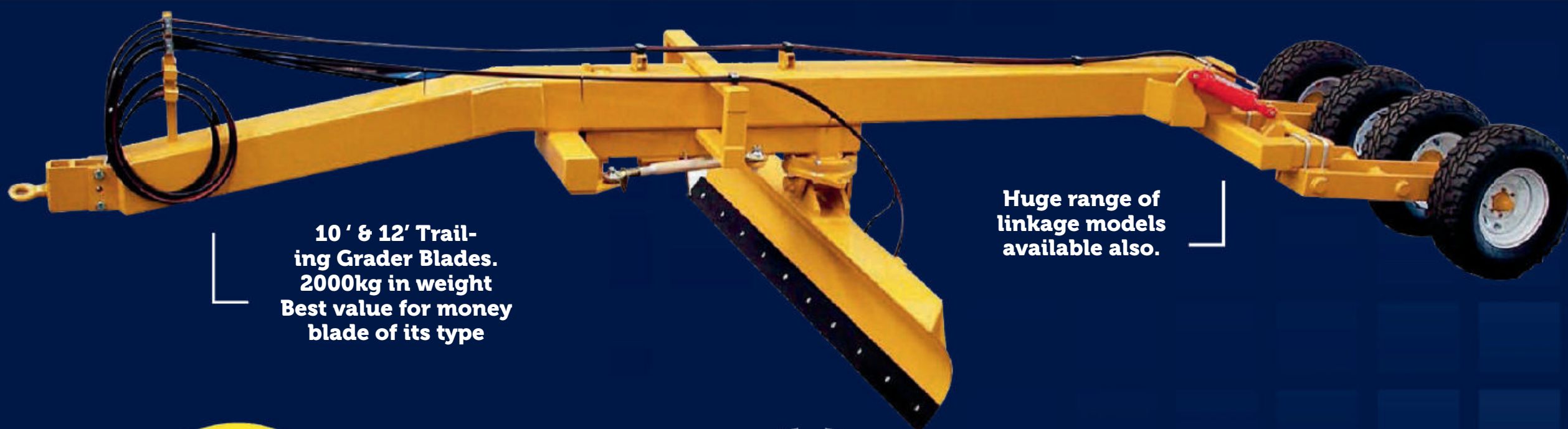


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The son rises

Danny Radford's 1926 (ish) Fordson F is back up and running, just short of 100 years since it first rolled off the production line in Detroit, USA.

Having sat in pieces for much of the last 50 years, one more Fordson F is back up and running - at Danny Radford's property in Kojonup, Western Australia.

Fordson tractors were manufactured by the Ford Motor Company's Henry Ford & Son mark in the United States, Ireland and later England from 1917 to 1964, with the models exported around the world.

Using the production line system for which Ford is famous, the Fordson tractor secured a reputation for being an affordable model that was light, easy to clean and able to handle different farm tasks.

But, and particularly for the early Fordson F series, the reputation was not entirely positive - without an oil pump, the Fordson F was known for running into problems when working sinking dams or doing earthworks, as the front bearings would run out of oil when the tractor encountered a steep slope.

Museums Victoria curator of Engineering David Crotty writes of early reliability problems including wheelslip and "a dangerous tendency to flip over backwards if a plough struck a hard object in the ground" - a tendency even more dangerous in a vehicle with no rollover protection to speak of.

Radford says his memories of the Fordson F's ploughing ability is somewhat happier, when he recounted his father's experience with the tractor and its factory-issued steel wheels.

"I never ever remember the tractor having steels on it because I wasn't born when Dad changed it over to rubber," he says.

"The reason he changed it over to rubber tyres was because when he first bought it, he tried to pull a plough ... and it just got stuck and dug its own hole

- and the steel tyres just made it worse. Rubber tyres would be handy!

"So his father-in-law bought him the rubber tyres. And they were still on it when I picked it up, but they were completely gone by that point."

The steel tyres, like much of the rest of the tractor chassis, remained under a tree on the family farm

^
Danny Radford's Fordson F is up and running, thanks to clearing sales, a few favours and a lot of mechanical work
 v
Getting enough oil to the engine to keep the flywheel spinning, as below, could be a challenge when going up hills



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 2094, 2096, 2290, 2290, 2294, 2390,
 2394, 2470, 2590, 2594, 2670, 2870,
 3394, 3594, 4230, 4496, 4694, 4994,
 7110, 7210, CVX 170, CX60, MAGNUM
 275, MAGNUM 290, MAGNUM 305,
 MX80C, MX255, MX285, PUMA, STX
 375 QUADTRACK, STX425, STX440
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 574, 585, 624, 660, 674, 686, 696, 706,
 756, 766, 786, 856, 866, 885, 886, 956,
 976, 986, 1056, 1066, 1086, 1256, 1466,
 1468, 1486, 1566, 1568, 1586, 3288, 3388,
 3588, 3688, 3788, 4166, 4186, 4366, 4386,
 4568, 4586, 4786, 5088, 5288, 5488, 6388,
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 4040, 4050, 4055, 4230, 4240, 4250, 4255,
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 4630, 4640, 4650, 4755, 4760, 4840, 4850,
 4955, 4960, 5010, 5020, 5310, 5515, 5300,
 6030, 6110, 6170R, 6200, 6220, 6300, 6310,
 6320, 6330, 6400, 6410, 6620, 6630 Premium,
 6810, 6820, 7210, 7330, 7510, 7520, 7600,
 7610, 7700, 7800, 7810, 7920, 7930, 8100,
 8200, 8285R, 8300, 8310, 8330, 8345RT,
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◀ The Fordson F was in fairly ordinary condition when Radford first started working on it., left: Plus, below, the elusive Edison spark plugs helped to get the Fordson F running.

for the rest of his father's life, with Radford and his siblings playing on them after school.

In time, Radford's brother took over the farm and eventually sold the property, with the old tractor and its components pulled apart for separate sale.

Many years later, Radford set out to restore the old tractor based on what remained.

A water washer, which functioned as an air cleaner for the Fordson F's original kerosene/petrol engine, had been sold in the clearing sale, but a friend was able to provide Radford with another - and other friends helped provide kingpins, a manifold and a vaporiser.

Most Fordson owners preferred to use kerosene to power their engines, but due to the fact that the ker-

osene tank in his own machine was beyond repair, Radford decided to run the fixed tractor on petrol.

The tractor also has some of its original trembler coils, which when the tractor's hand crank is turned can produce enough current for it to start the engine - though Radford says there's often a lot of work to do to produce enough charge.

This, he says, was one of the reasons behind the Fordson Fs lost their appeal for a group of people previously more accustomed to a horse than a tractor.

"This (tractor) is between 1926 and 1927 factory date and it is getting very close to the last of the Fs, which ceased production in 1928," Radford says.

"They did away with the trembler coils because they couldn't start them and all that sort of thing,

they just discarded these tractors because they were just too troublesome," he says.

Radford says this was almost certainly true for his father, who he remembers didn't keep the tractor for very long as the main one on the farm, later upgrading to a Massey Harris pacemaker and an E1A Fordson brand tractor.

So in a slight concession to modernity, he's installed a battery that helps to get the motor running - a motor that Radford has now entirely rebuilt.

"I put better rings in it out of another old tractor and I didn't do anything to the crankshaft - just left it as it was."

With the original belt pulley having entirely rotted away, a new one was secured from a neighbour's clearing sale for \$10 and, as Fordson radiators were largely unchanged all the way up to the Fordson 27N, Radford was able to get a new one relatively easily.

Even three of the four spark plugs, which were hard-to-find half inch BSP thread Edison models, were secured from Radford's brother-in law.

"They are a very special spark plug because their design is completely different to the modern ones today, with a long electrode inside.

Now completed and operational, there's no plans for the Fordson to be polished up or widely shown off - as Radford is happy to celebrate a job well done.

"If Dad was alive today, I think he'd be quite proud that I actually did get it going, because he just discarded it - it wasn't valuable to him," he says.

"But I wanted to put it back to where it originally was - that's what it is, just riveted together and it runs fine! fm



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Einboeck's Pneumaticstar Pro is available with either mechanical or electronic seeding

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The Pneumaticstar Pro is designed for reseeded of grassland and is available with widths of either 3m, 6m or 12m.

It has a solid frame on which a heavy, triangular, spring-loaded levelling board is mounted, while folding up to a transport width of just 3m.

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Almost any seeds can be distributed with the Pneumaticstar Pro, which is also ideal for dethatching the turf.

As the support wheels are behind the levelling plate, the machine works very smoothly with a high working speed.

The weeder sections are always parallel to the ground, so all tines exert the same downward pressure. A wide variety of tines is available, including 10mm tines for extreme conditions, and the units also offer simple and quick central tine adjustment per section.

The Pneumaticstar Pro is available with either mechanical or electronic seeding, depending on the model chosen.

Both options have a 300L hopper, however Einboeck also offers a Pneumaticstar Pro XXL version with a 500L hopper.

Sturdiness is at the forefront of the design with hardened bushings and solid construction.

Einboeck's Aerostar tined weeder is another example of a versatile product that has an option to suit all farming requirements.

Vin Rowe says the standard Aerostar Classic is the most economical model in the range, where about 70 per cent of the weeds get buried in soil and the remaining 30 per cent are destroyed by getting plucked.

A staple in Einboeck's range for more than three decades, the Aerostar Classic has been continuously developed and is an ideal option for chemical-free weed control.

It adapts to various soil conditions regardless of the working width.

For sensitive crops, the unit can be equipped with extra-long tines and a hydraulic tine adjustment.

For large operators, Einboeck offers the Aerostar Classic XXL.

In working position, two additional adjustable wheels on the XXL's outer wings guarantee smooth

operation of the tined weeder frame and a stable profile tube frame with a large triangular bracket prevents the frame from swinging forwards or backwards.

Another model is the Aerostar Exact, which offers accurate precise adjustment possibilities thanks to the exact depth control.

Einboeck also offers the Aerostar Rotation, which combines the advantages of a tined weeder and rotary hoe to create a rotative weeder with a wide range of applications.

The work is carried out by steel pins which are embedded in a plastic disc set at an angle, while individually suspended, rotating working tools uproot and shed weeds, promote the tillage of yield crops and break up even hard soil incrustations without any problems.

With the hydraulic pressure adjustment, the pre-tension of the star wheel carriers can be infinitely varied between relief and load from the cab.

This makes the machine ideally suited for difficult soil conditions. **fm**

Einboeck's full range can be viewed by Australian importer and distributor Vin Rowe Farm Machinery's website at www.vinrowe.com.au.

The Aerostar Classic has been part of Einboeck's range for more than 30 years





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Bourgault has the equipment to ensure precision seeding that will reap rewards at harvest time

Achieving a productive harvest requires a clever combination of planning, preparation, and the right equipment, used at the right time.

For Bourgault customers, a Paralink opener is an important piece of the equation.

Providing independent depth control, Paralink openers ensure seed is being placed in the right spot when seeding takes place.

Between seeding in the perfect location, and the experience and know-how about when the ideal time to plant is – farmers will be starting off their harvest on the right foot.

Manufactured in Canada, Bourgault products are known for their reliability and durability.

Having a machine on which one can depend at crunch time is important, and Bourgault seeding bars are designed for exactly that.

The company has continually devoted resources to engineering and testing with the ultimate goal of reducing maintenance and repair times.

Features such as low grease interval bearings, hardened pins and carefully-placed frame reinforcements help to reduce wear and tear and any down time.

The Paralink opener works well even in challenging conditions such as undulating or uneven ground.

The opener's press wheel closely follows the seed knife, which closes the furrow and helps with maximum contact between seed and the soil.

Increasing or decreasing the packing pressure is as simple as pushing a button.

An electronically controlled hydraulic circuit means this can be done from inside the cabin, giving the operator more control and convenience.

All of this combines to ensure the seed can be placed in the ground consistently and with the perfect depth and spacing to yield maximum results.

Bourgault also works to ensure all farming needs are catered for, thanks to a variety of options.

The manufacturer's Paralink hoe drills are available with three opener options – the Xtreme, Single and Dual Shank.

There are also two frame options – 3330 and 3335 – plus 25cm (10 inch) and 30cm (12 inch) row spacings, and a variety of working widths.

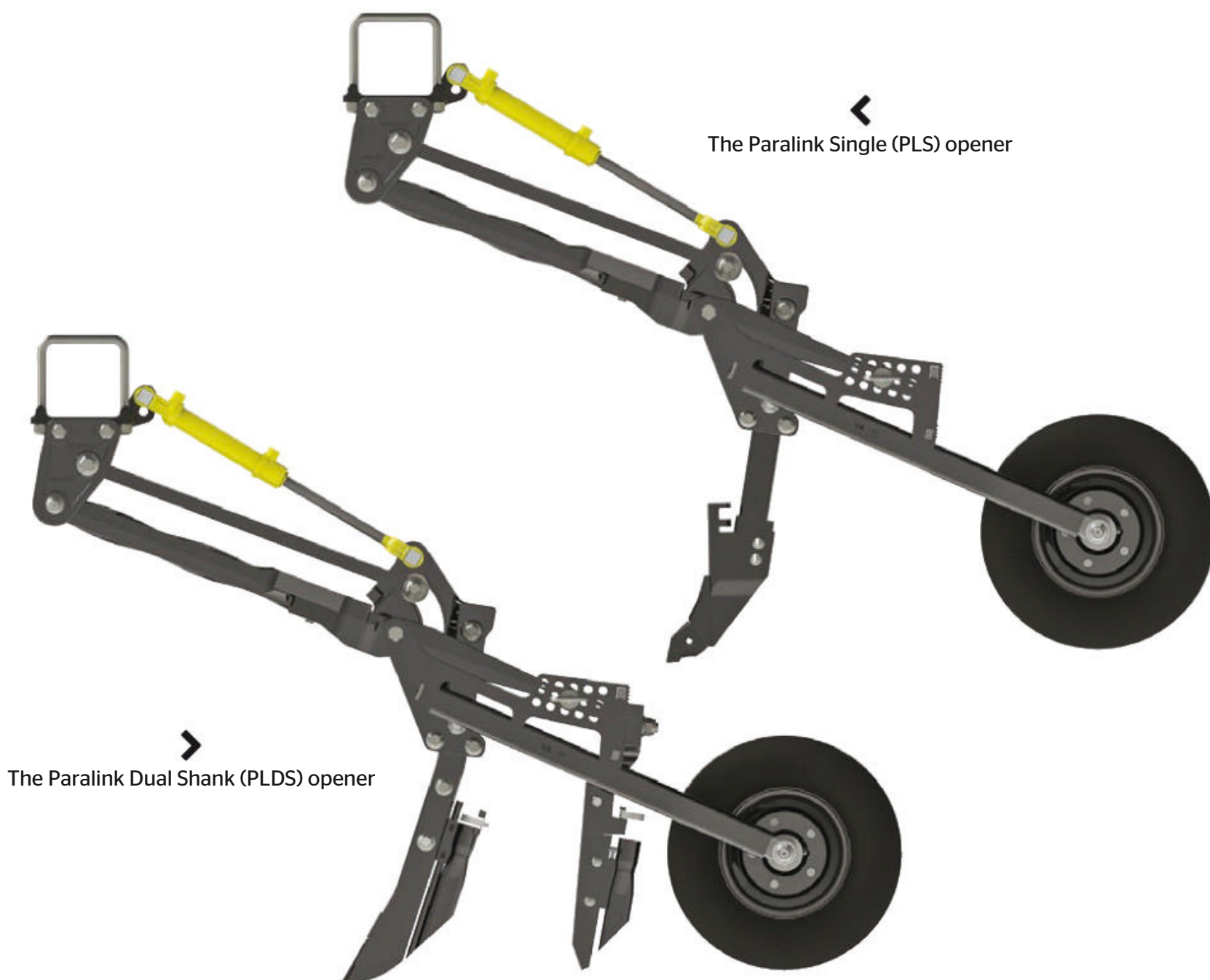
Other ways of customising the machine include

coulter, knife and airtkit options, depending on what features are required for the seeding job. **fm**

The manufacturer's products are available through Bourgault Australia and can be viewed at www.bourgault.com/en-au/

^
Bourgault's 3335 hoe drill

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The Paralink Single (PLS) opener



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Gold standard

Massaro Motors specialises in Kubota agricultural equipment

As Massaro Motors approaches its half century, the business itself and founder Ray Massaro are still going strong

Founded almost 50 years ago and with the family's name still emblazoned out the front, Massaro Motors is an institution in Victoria's Gippsland region.

Founder Ray Massaro still leads the Kubota products specialist that has served several generations of families since its foundation in February 1974.

"We're in the people business and our primary objective is to look after our customers," Ray says.

"We have loyalty and respect for them from the onset because they virtually run this business, or we run this business to satisfy their needs.

"The second respect we have is to the brand out the front, which is Kubota, but primarily if it wasn't for our customers the brand would not be there."

Regional towns, such as Massaro Motors' home of Morwell, are built around a sense of community and making sure relationships are built and retained over many years.

Ray started the business when he was just 23 years old and has made it a priority to ensure families will have a positive customer experience over multiple generations.

"When I started the business, I knew our younger customers who were my friends, ex-school mates and ex-footy club friends," he says.

"I also knew customers who were our parents' ilk from the start, who were the fathers and mothers of these people that I knew.

"As a business, Massaro Motors also had respect because we were dealing with our grandparents at that time as well, who were alive and buying and doing business with us.

"That still continues today with some of those surnames.

"Sometimes we might have to go into the female surname to find the original client, but nonetheless we've been here all that time looking after those families and family groups.

"If we miss out on a generation, I want to know why we failed and where we failed this person. In the end, that person has a family, and we may fail the whole lot, so we need to stay on top of our game to make sure that we don't have that miss where we fail somebody."

This strong focus on community is further emphasised by Massaro Motors' involvement in local football, tennis and bowling clubs, and Ray's former involvement as a disability service chairman and shire councillor.

Looking after all needs is highlighted further by the depth of product sold by the business.

Kubota is the business' bread and butter, while Massaro Motors also sells Kubota sub-brands such as Krone and manufacturers of smaller equipment such as mowers and chainsaws.

While Ray says the subcompact Kubota BX tractors stand out in terms of their most popular



product, it is the wide range available which distinguishes the Massaro Motors range.

"We try and serve all our clients - from the guy that's got a shed in the backyard that mows his lawn and has a whipper snipper, through to the fellow who's got a forage harvester and makes big round and big square bales and 175 horsepower tractors - and everything in between," he says.

"If you look at the Kubota brand and open a book that says the price list, there are hundreds and hundreds of pages of product that Kubota have, and we have all that.

"We cover the whole range professionally and respectfully, so Kubota are happy with that."

There is a family succession plan in place for Massaro Motors, with son Luke involved in the business.

"I've got six children and 14 grandchildren, and I only hope the second and third generation of Massaros keep it going," Ray says.

The business has been operating for nearly 50 years

"We'd certainly like to grow to be a much bigger dealer in a bigger area."

"So that's our ultimate plan, and that's in train partly already," he says.

But while the succession plan is established, Ray has no plans to retire from the business soon.

"I'm not going anywhere," he says.

"I'm a people person myself, I can't stay at home and do the gardening or grow vegetables or prune trees.

"I'm active, I love what I do, and I love meeting the customers when they come in to drop something off or pick something up or just come in to enquire."

Massaro Motors is located at 497 Princes Drive, Morwell, and can be contacted by on (03) 5191 9369 or by visiting www.massaromotors.com.au

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Labour shortage

WAFarmers chief executive Trevor Whittington looks at Australia's emerging population crisis, and asks what this might mean for the future of Australia's regional communities

Even with the current economic uncertainty, if you think the skilled worker shortage problem was all COVID-19 driven and will self-correct over time, then think again.

Australia's labour shortage has been building for some time and it's not just confined to our shores, it's a problem being experienced across the developed world - in the USA, UK, Singapore and Malaysia - and it's here to stay.

According to a recent study, 87 per cent of global employers admit that they are currently struggling with skills gaps issues, which is probably why your machinery dealer is telling you that the wait on new equipment is anything up to two years.

At our current unemployment rate of 3.4 per cent Australia has 400,000 unfilled jobs which is pushing wage rates up.

So, what's driving this worker shortage when the globe has just ticked over 8 billion people, a quarter of them speak English and many would move to take a higher paying job?

The first and obvious point is most of the globe's population resides in developing countries and it's not that easy to walk, swim or paddle across borders into a developed country to fill the jobs vacuum.

For those that do make it, there is the challenge of getting a working visa or green card to make them legal. For those lucky enough to navigate that challenge there is the need to have the language skills to work as the bell boy, the technical skills to work on the front desk or the qualifications to be a chef.

Jump all those hurdles and the barriers into the job market remain strong. Unions work hard to ensure the demand part of the labour equation always outstrips supply.

Even for those who get past the unions there are always specific Australian qualifications that are needed in the form of the growing number of safety tickets or passing the local licensing exams - all of which help reduce the numbers of skilled workers.

Even semi-skilled occupations have barriers to entry. For example, to drive a road train you need to have held a car license for three years and a heavy rigid license for a year.

Then there is the simple fact that some jobs are just not appealing to some people. Again, road truck driving, even with annual salaries of between \$100,000 and \$120,000, there are few takers from the post Generation Ys (1996), in part this is because the lifestyle does not appeal to a younger generation with more options available to them.

Life on the road is not the calling it used to be, nor is life in the bush, or the appeal of a country town (unless its Margaret River or Byron Bay), which means attracting people to move from the big city to take up jobs in the regions is yet another challenge.



**Trevor Whittington,
CEO WAFarmers**

To this we can add another part of the labour shortage equation that both Australia and the whole of the western world is grappling with: an aging population.

Interesting fact, without net overseas migration adding 1 per cent a year to Australia's population base since 1947, our population today would have flatlined around the post war number of 7.5 million people in the entire country.

Today Australia is the second most multicultural country in the world after Israel with 5.5 million people born overseas. Without this influx we would have had one of the oldest population cohorts in the world, a problem that is now common across the western world where the average age back in 1960 was 30 years old, growing to 40 by 2000 and now heading for 50 in 2060.

Aging populations have declining workforces and less military-aged people to conscript, which is why Russia and China are on the warpath while they can muster the numbers to fill the ranks.

This aging trend is what will eventually cap the global population by about 2080 at around 10 billion, with studies estimating that by 2030, one in six people in the world will be aged 65 or over and by 2050, one in three.

Add to that the rapid fall in births in countries that have hit middle income status post 2000 and we have the combined effects of an aging population and a declining replacement rate hitting the global

workforce - with China, Japan, South Korea and most of Western Europe likely to experience falls.

According to UN and World Bank statistics, 75 countries already have fertility rates that fall well below the replacement rate of 2.1 per cent, and those countries that are growing are not exactly known for their manufacturing prowess.

And while in the old days you could fill a tractor factory job with almost anyone who came in off the street, today the vast array of electronics made complex machines more complicated and narrows the field of people and countries able to build them.

This does not bode well for the next generation of farm machinery which is full of electronics. Who is going to be able to fix all this gear as it goes down the ranks to smaller farmers or becomes backup equipment? It's unlikely to be someone coming in from a less tech-savvy place as a new migrant.

By the end of this decade there will be few people in the Wheatbelt with the skills to find the electronic problem in a 30-year-old 2000 model tractor.

Besides if they do, good luck finding the parts. Bigger more complex 300 - 700hp machines have replaced 100 - 300 hp machines, we can replace the drivers with automation, but will we be able to find the technicians to fix them?

In a recent report by the OECD, they found that Australia is second only to Canada in its shortage of skilled labour, so we are at the forefront of what is a global problem.

We don't now have high levels of youth unemployment helping to drive people into apprenticeships and training in careers that are hard on the body.

When one in five youth back in the 1980s was unemployed the incentive existed to go get trained up so they were employable, but when the unemployment level falls to one in 30 you are scraping the bottom of the barrel and its then that regional, rural, hot, dirty, hard, boring, low paid jobs are left unfilled no matter how much they offer as a pathway to future self-employment or a big income.

What that means is that Australian agriculture will remain short of workers unless we can convince the government to change the model of migration and rerun the Populate or Perish program, along with targeting migrants with visas linked to the regions.

Failing that we need to open Australia to many more semi-permanent visas making it easy for motivated Indians, South Africans, Filipinos and Pacific Islanders who are skilled and semi-skilled to come in on four-year visas linked to jobs in the bush. This is the formula the Middle East offers its workers, albeit we would not be seeking to exploit them as they do.

The other thing we need to do is find a new way to fast track our youth through skilled apprenticeships. If four years is too long to suffer through training, then the government should be offering full-time intensive two-year courses in specific high-tech areas related to mining and agriculture to train up technicians in the machinery skills which we need to fill the workforce gaps.

The State government should be using the new \$10m training facility they build at Muresk and pushing through 100 graduates a year in intensive hands-on courses. They won't be match fit like a four-year apprentice but they will be well on their way to being useful to an employer. With luck some may even stay on and elect to live and work in a country town and not take a job on the mines.

Without policy changes to attract and hold people in the bush the skilled shortage will continue to get worse.



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New in-transit treatment options are being negotiated for Australian exporters.

TRADE

New horizons

Cutting wait times and giving more options to exporters is high on the government's agenda

The Australian Government is making changes to help improve Australian grain exports around the world, and it has Central and South America in its sights.

Nicola Hinder, the assistant deputy secretary of the Agricultural Trade Group within the Department of Agriculture, Fisheries and Forestry, says the Department has a series of initiatives underway to help improve export conditions.

The moves come as the value of Australian crop exports is anticipated to reach \$46.7 billion in the 2022-23 financial year, up 18 per cent on the 2021-22 total of \$39.6 billion.

The total export volume of grains, oilseeds and pulses for 2021-22 was 45,362 kilo tonnes and the forecast for 22/23 is 48,893 kilo tonnes.

"The last two years were extremely successful for the crops sector, so we are committed to doing everything we can to improve conditions for Australia's grain exporters," Hinder says.

To help facilitate this, the department has negotiated a treatment program for bulk shipments of grains to Mexico and is currently trialling the same treatment for grains and pulses to India.

"In-transit treatment removes the need for grain to be treated onshore for seven to ten days, which reduces congestion at ports and lowers costs for exporters," Hinder says.

"We've improved the assessment and issuance processes for export permits by automating and digitising manual certificates. So far, we have assessed and issued over 52,000 grain export permits for 2022—with such volumes every improvement we make can have positive impacts for industry.

Hinder says the department has also approved two new mobile bulk loading operators—with two more under assessment—providing more options for exporters to move grain through the ports.

"We're doing everything we can to improve market diversification," she says.

"This year we're looking to send feed barley to the Gulf states, malting barley to Mexico, Peru and Ecuador, and lentils to India.

"And we are actively pursuing market access for wheat and barley to Brazil, and wheat to Mexico and Ecuador while working to improve conditions and reduce costs for Australian grain into a number of key markets, such as India, Pakistan, Sri Lanka, and the Philippines." 



GRAIN

▼
Canola is expected to provide a major boost to Australia's harvest this season

Chain reaction

Australia's grain harvest is tipped to be above average, but delays may cause headaches across the supply chain

Harvest delays caused by poor weather in the Eastern States, combined with a strong overall crop forecast, may cause challenges this harvest season according to ANZ's latest agri commodity report.

A later-than-usual harvest due to flooding could make contractors more difficult to source while also causing bottlenecks at grain ports and throughout the supply chain, the report says.

Downgrading the quality of grain may also cause logistical issues for grain handlers, particularly while gearing up for big volumes.

ANZ's head of agribusiness Mark Bennett says despite crop damage in the eastern states, the nation's overall harvest is tipped to be strong thanks to strong performances in Western Australia and South Australia.

"Statistically, the coming harvest is likely to be the twelfth year in the past fifteen years that production has been above the ten-year average," he says.

"Even more notably, working on the latest crop forecasts, this year's crop could be around 39 per cent higher than the ten-year average.

"This would be the sixth highest difference from the average in over fifty years.

"While Australia remains a world leader in handling volatile crop production volumes, it is also important that discussion continues on the best possible grain distribution and export network going forward, which includes the balance of on-farm storage, as well as road and rail transport.

"This is especially important in a nation which sees so much volatility in production, and from which the supply of grain to both domestic and export customers is so essential."

Canola and sorghum are tipped to experience high increases in production levels, while wheat, barley and oats are forecast for small declines.

This is due to a bumper harvest last year, the report says, while noting that numbers are still very high despite the slight drop.

The biggest global factor likely to affect grain prices are exports from Ukraine and Russia, ANZ says, tipping a continuation of slow movement from the region.

North American grain plantings are also forecast to be the highest in five years, particularly for wheat and corn.

"In theory, this should mean a softening in global prices in the early to mid-stages of 2023, after the Australian crop has hit global markets and the world prepares for a reasonably good Northern Hemisphere crop," the report says.

"That said, this optimism will be very cautious – a caution likely to keep most prices high.

"With the US and Canadian crops in particular remaining quite dry, the chance of the Ukraine conflict suddenly impacting trade at any moment, and major buyers continuing to build their grain stockpiles – especially China, means global grain markets will continue to be volatile." 



^ The research will study grain crop genetics

GRAIN

Global gains

German researchers have chosen the University of Queensland as a partner in a grain genetics group

Queensland researchers have been selected to work alongside a German university in a \$15 million group based around accelerating genetic gain in grain crops.

An International Research Training Group will be formed, which will feature Queensland Alliance for Agriculture and Food innovation (QAAFI) and School of Agriculture of Food Science, both of which are attached to the University of Queensland.

They will team up with Justus Liebig University researchers from Giessen in central Germany, with the whole project funded by the German Research Foundation (DFG).

QAAFI professor Ian Godwin, who is a group co-leader, says years have been spent preparing the bid. "It's a coup for UQ, very prestigious," he says. "We will be working with sorghum, faba bean,



QAAFI professor Ian Godwin

wheat, barley, mung bean and chickpea –so cereals and pulse – crops, covering crop genetic selection and predictive breeding, gene editing and improving stress tolerance.

"The DFG has funded 22 research training groups, but only two of them involve international training partners, so ours was one of the successful ones in a highly competitive field."

The research is expected to begin in July and is expected to involve training about 24 PhD students from UQ, with a similar number from Germany.

Godwin says the students involved with the project conduct research in both Queensland and Germany, which will mutually benefit both countries as well as the students themselves.

"The team in Germany has absolutely fantastic plant phenomics, high throughput phenotyping equipment that our students can use to speed up their research," he says.

"For summer crops like sorghum, there is the potential benefit that a student can do a field trial in our winter in Germany, and then another trial in Queensland, giving them almost a continuous growing season to generate data.

"And from the German point of view, QAAFI is one of, if not the best group in the world when it comes to sorghum genetics, breeding, biotechnology and physiology – so we have the tools to help their sorghum program.

"The final component is annual workshops alternating between Australia and Germany, allowing students to present their research and benefit from industry engagement, honing all the skills they need to be scientists." **fm**



WOOL

Wool growth

New markets for wool and cotton are opening up in 2023, Rabobank says, helping to reduce Australia's export reliance on China.

Price turbulence which impacted the cotton and wool industries last year could continue into 2023, according to Rabobank experts

Both the cotton and wool industries started 2022 with major price rises before declining sharply later in the year, the agribank says.

Wool production is on the rise in the new year, while extreme weather events both in Australia and globally are impacting cotton production.

Wool growth

Australian wool producers experienced ups and downs throughout 2022.

The Eastern Market Indicators reached a high of around \$14.74 per kilogram after climbing strongly early in the year, Rabobank says, before declining about 20 per cent.

Rabobank associate analyst Edward McGeoch says there are several reasons for the late decline.

"International retail apparel sales drive the Australian wool market and while there was a strong start to the year, growing international economic uncertainty has seen a negative effect on the sale of wool apparel and hence local prices," he says.

"Key markets for wool suits – US, Japan and France – have seen reduced product appetite with sales down between 20 and 50 per cent.

"The long COVID lockdowns in China through the year have affected the country's wool milling capacity and saw reduced demand for Australian wool."

High micron wools, which are used in carpet production and fake fur, had the biggest price drop of up to 30 per cent and in some cases sit at their lowest price levels for 10 years.

McGeoch says Australia is continuing to lift wool production, steadily increasing sheep numbers since 2019 and rising by about 10 per cent last year.

"In 2021, Australian wool production was approximately 294 million kilograms, which we saw increase in 2022 to around 324 million kilograms," he says.

"Through the course of this year, there has been a growth in wool production in Queensland and Tasmania – with sheep numbers increasing in Queensland and improved seasons seen in Tasmania."

McGeoch says about 80 per cent of Australian wool goes to China, however exports to India increased 40 per cent last year and other export markets such as Turkey, Vietnam and Indonesia are expected to increase in future.

^ Australian wool production is continuing to increase, while demand for cotton saw prices rise sharply early in 2022 before a decline



Rabobank associate analyst Edward McGeoch

Cotton challenges

The cotton industry experienced a similar trend to wool, with price rises early in the year before a decline, however the fluctuations were wider.

"Cotton prices opened well off the back of strong performances in 2021 – kicking off the year with a local price of roughly \$740 per bale," McGeoch says.

"We saw the price trend up significantly to an 11-year high, with rises of 29 per cent to achieve just under \$1,000 per bale.

"Unfortunately, we have seen a steady decline from those high prices, which almost halved during the year, recovering slightly in recent months to sit at approximately \$600 per bale."

He says reduced global production, particularly in drought-affected Texas, impacted prices.

Increased demand was another factor, caused by both high retail sales and overbuying from cotton mills keen to avoid the uncertainty around delivery times due to global container logistics.

Extreme weather events are impacting production outlooks, McGeoch adds.

Drought in the United States caused production to drop by about 3.5 million bales, while Pakistan's production dropped by about 1.5 million bales due to flooding and heatwaves.

Locally, flooding in New South Wales and Queensland led to Rabobank scaling back output estimates.

After 2021-22 production of 5.75 million bales, it had been hoped the 2022-23 output would reach six million, however McGeoch says this is now tipped to be under five million.

Like the wool industry, cotton exports to India have also increased.

Vietnam has also emerged as a key market for Australian cotton, with about 38 per cent of exports heading there, while Turkey is also increasing its demand for exports. **fm**



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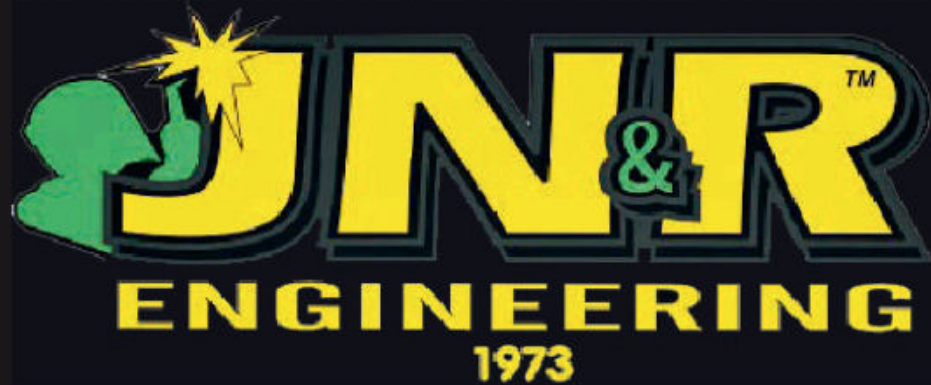
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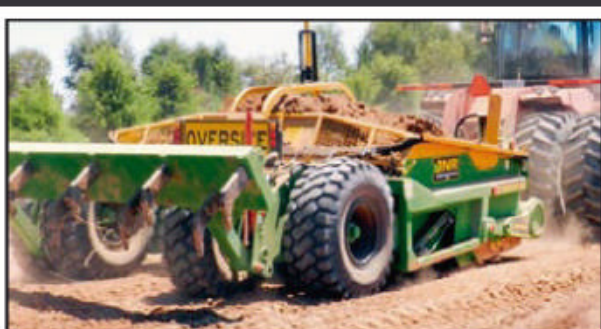


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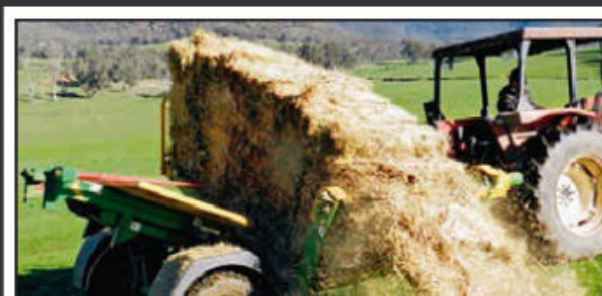
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↑
Tasmanian salmon are a major part of Australian Aquaculture's success story

FISHERIES

Tickled pink

Tasmanian Salmon and Queensland Prawns led the way for aquaculture in a slightly poorer year for Australian fisheries in 2020-21, new statistics show

More than half the value of Australia's fish production in 2020-21 came from aquaculture, rather than fishing in the wild, according to new data from the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES).

The latest ABARES Australian Fisheries and Aquaculture Statistics from 2021 show the gross value of fisheries production rose nine per cent to \$1.73 billion that year, accounting for 56 [per cent of the total gross production value of \$3.09 billion.

ABARES Executive Director Jared Greenville says this is largely due to increased production of salmonids in Tasmania and prawns in Queensland.

"Over the last two decades we've seen aquaculture grow, helping to boost overall fisheries production," he says.

"In recent years, the aquaculture sector has been broadening the composition of species produced, with an increased emphasis on prawns and finfish varieties, like barramundi and kingfish.

"Aquaculture has been a success story for Tasmania. In 2020-21 Tasmania had the highest fishery and aquaculture GVP, accounting for 38 per cent of the national total, followed by Western Australia (14 per cent) and South Australia (13 per cent).

"And Tasmania's fishery and aquaculture GVP increased by 10 per cent the same year to \$1.18 billion."

In contrast, the lower prices received for rock lobster in export markets was part of the reason behind a 12 per cent fall in the GVP of wild catch species to \$1.4 billion in 2020-21.

"Lower rock lobster production value was driven by trade and pandemic disruptions continuing to limit opportunities in export markets," Greenville says.

"Overall, the GVP of Australian fishery and aquaculture in 2020-21 decreased by 1 per cent to \$3.09 billion."

Greenville adds that Australians consumed around 356,000 tonnes of seafood in 2020-21, equivalent to 13.9kg per person.

"And while imports made up 62 per cent of that total, this share has declined from the peak of 69 per cent in 2013-14," he says.

"While Australians consume less fish than chicken, pork and beef, they consume more fish than sheep meat." **frm**



SEAFOOD

Not so rocky

↑
Australian consumers have benefitted from increased local supply of lobster

Australia's lobster industry is recovering following COVID-19 turbulence, while beef export markets are more evenly spread than ever before

These are the findings of ANZ's latest agri commodity report, which has provided reasons for both industries to be cautiously optimistic about 2023.

The rock lobster industry was the "poster child" for downturns caused by COVID-19 lockdowns and Chinese trade bans, the report says.

However there have been new opportunities presented by both increased supply for the domestic market and exports to alternative markets.

In both cases though, prices achieved were lower than when exporting to China, although the report also notes that "boom time prices" were being experienced up to 2019.

ANZ agribusiness research associate director Madeleine Swan says there is more upside potential than risk in lobster prices, while adding the changing market and global conditions will present both opportunities and challenges.

"In looking for alternative markets, Australian exports to Hong Kong have increased strongly, most likely as an alternative route into the China market, while exports to Vietnam, the United States, Singapore, Korea and Malaysia are all seeing some growth," she says.

"The growth potential is also aided by an anticipated fall in global lobster supply, as supplies of Pacific lobster out of the United States and Canada - the largest lobster exporters globally - are expected to be impacted by warming oceans."

"It also needs to be remembered that Australian rock lobster doesn't just compete with other lobster species," Swan says.

"It also competes with other luxury crustaceans including crab - with Russia providing one of the primary sources of high-quality king and snow crab".

"While sanctions on Russia over its war on Ukraine will likely result in new opportunities for Australian rock lobster in markets across Europe, Japan and northern America, Russian crab is also likely to seek new export markets across China, Korea and other high-value markets in Asia, putting pressure on the growth potential for Australian rock lobster," she says.

The beef industry has benefitted from not having the same Chinese trade bans as lobster, however is also better placed to handle any disruption due to its even spread of exports.

ANZ agri research executive director Michael Whitehead says while there was an overall drop in export volumes, the gap in market share between Australia's biggest trading partners was the narrowest on record.

Japan remains the biggest trading export market, accounting for 23 per cent of all Australian beef.

China and South Korea both take 19 per cent of Australian exports and the United States accounts for 16 per cent, with the remaining 23 per cent is spread across other markets.

"Arguably, this is a positive position for Australia, as it means the level of concentration risk on any one market is lower than ever," Whitehead says.

"If we look back over past years, the period when any particular market had a greater share, Australian beef exports meant that concentration risk was increased.

"In 2014-15, around 35 per cent of Australian beef exports were going to the US alone, while further back in 2004-05, Japan and the US accounted for 83 per cent of exports.

"While these all remain strong trading partners, it is preferable for industry to have a good spread of markets, to protect producers, processors and exporters from any unexpected issue in an individual market."

Whitehead says the drop in overall exports could be attributed to several factors.

"Within Australia, while yardings are larger than they were during the peak of the restocking process, with the national herd continuing to grow, many cattle producers are still rebuilding their own operations," he says. "This puts export volumes in strong contrast to those of 2018 and 2019, when farmers were offloading cattle as the drought continued."

"Across all markets, Australian beef exports continue to face increasing competition from larger than normal volumes of US beef, as the US continues to liquidate its herd due to drought." **frm**



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Farmgate margins for dairy farmers remain positive, Rabobank says

DAIRY INDUSTRY

Price rises

High milk prices have offset increased costs for farmers, but consumers are tipped to feel the pinch again in 2023

Australian milk prices have risen at the fastest rate since records began, a Rabobank report has found, although further major increases are not expected this season.

The agribank’s ‘Global Dairy Quarterly Q4 2022 – Walking the Tightrope into 2023’ report says high prices have offset major cost increases for farmers, but the price pressure felt by consumers will continue.

Furthermore, Rabobank has revised its forecast production downwards due to factors such as eastern states flooding.

As of October, national production was down 6.6 per cent for the season with decreases in all regions.

Rabobank senior dairy and consumer foods analyst Michael Harvey says the excessive rainfall and flooding has caused flow-on effects for farmers..



◀
Rabobank senior analyst Michael Harvey

“There has been significant feed and fodder losses as a result of the rain and flooding – it is one of the key challenges faced by impacted farms,” he says.

“Some supply chain and logistics issues have been reported as a result of the wet weather – including some dumping of milk – but not to the point of having a material impact on milk processing.”

Harvey says farmgate margins remain positive, supported by the record milk prices which have helped to offset increased costs such as fertiliser, fuel and feed.

One of these challenges – feed – is expected to be further tackled by plenty of supplementary feed in the months ahead, Rabobank says, with the forecast of a large winter wheat crop.

Despite the drop in supply, Australia’s total dairy exports were four per cent higher for the first two months of the 2022-23 season, spearheaded by strong liquid milk exports.

Globally, Rabobank expects a modest increase in production – offsetting a 0.8 per cent decrease in 2022 – to return to 2021 levels.

It is tipping an end to five consecutive quarters of declining production globally and expects supply to “gain modest momentum” in most regions apart from Australia.

The report also says Chinese buying patterns will be crucial to the 2023 result, with predictions for the country to re-enter markets in the second quarter of the year and have a bigger presence from the third quarter onwards. **fm**



LIVESTOCK TRANSPORT

Road rules

^
The effluent code is designed to make livestock transport safer

Effluent spillage during livestock transport is the subject of a new national code of practice

The National Heavy Vehicle Regulator (NHVR) has partnered with the Australian Livestock and Rural Transporters Association (ALRTA) to create a code of practice to minimise effluent loss during livestock transport without impacting animal welfare.

The ‘Managing Effluent in the Livestock Supply Chain’ code of practice is designed to help livestock producers, transporters and others involved in the supply chain to understand their obligations under national heavy vehicle law.

ALRTA president Scott McDonald says the association worked with a wide range of stakeholders while developing the code, including livestock producers, transport operators and drivers, vehicle manufacturers, agents, saleyards, feedlot managers, processors, regulators, animal welfare advocates, government agencies and the community.

It will bring multiple benefits for the industry while sharing responsibility for effluent management across the whole supply chain, McDonald adds.

“Historically livestock transport drivers have been left solely responsible for managing livestock effluent in transit,” he says.

“This code is a game changer because it makes it clear that chain of responsibility applies to off-road parties in the livestock supply chain and articulates the measures they can take to minimise the risk of

effluent accumulation and spillage.

“This is a supply chain problem that requires a supply chain solution.

“While the effluent code will help to improve road safety, it will also improve animal welfare outcomes, mitigate biosecurity threats and contribute to the sustainability of the livestock industry.”

The code also cites a real case study where a driver was pressured to accept a load of cattle despite inadequate preparation.

This meant an overflow of effluent without a disposal facility on the planned route.

Combined with time pressures and fatigue management requirements, it resulted in effluent spillage in an urban area and liability on the driver’s part.

NHVR CEO Sal Petrocchio says the code has been specifically developed by industry for industry, but adds that its use will have benefits for the wider community and road users.

“It combines industry knowledge and experience in suggesting measures to minimise effluent loss that can be implemented at each stage of a land transport journey – from preparing livestock for transit to unloading – without impacting animal welfare,” he says.

The 30-page document can be viewed at the NHVR website. **fm**

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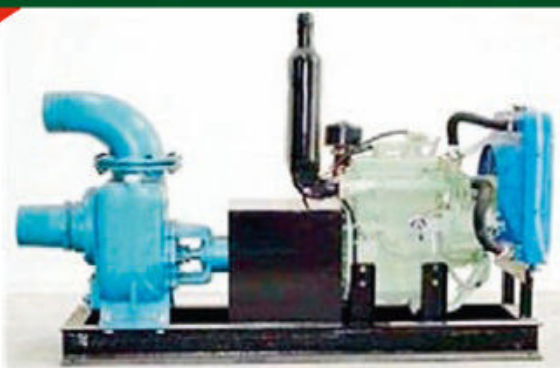


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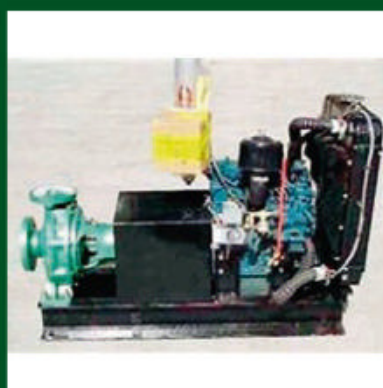
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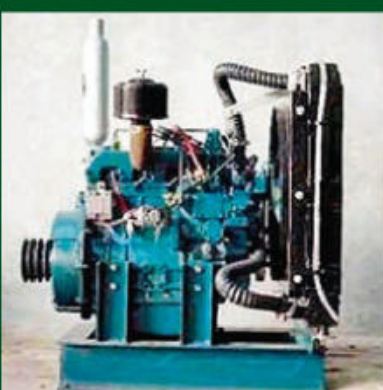
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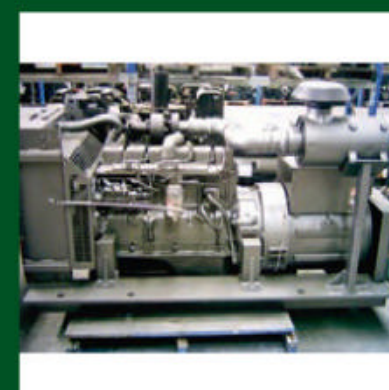
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CASE IH PUMA 165 Classic 2019, hours: 3565, HP 165, VIN/Serial #: Zhbh50515. 480/70-30 front 80% 620/70-42 rear 70% 70. Zuidberg front linkage & PTO. Cab suspension 540/1000 rear PTO. Zhbh50515. TA1160629. **\$140,000**



CASE IH PUMA 165 2010, CVT cab tractor, 6055 hours, hp 165 + boost, 16.9R30 front tyres 80%, 20.8R42 rear tyres 80%. Workshop checked and ready for work. ZABH50502. TA1130839. **\$105,000**



CASE IH MAXXUM 125 ULT MULTICONTROLLER 2009, ULT multicontroller, FWA/4WD, hours: 8000, HP 125, good tyres, been through workshop. Located Trafalgar, contact Andrew Noonan 0412 610903. Z8BE54898. TA1134467. **\$62,700**



CASE IH PUMA 165 Classic 2019, classic hours: 3790 480/70-30 front 60% 620/70-42 rear 40%. Cab suspension, instructor seat, LED lighting pack and new design roof. 540/1000 rear PTO, 3 x rear remotes. Zjhb50781. TA1160628. **\$130,000**



MCHALE V660 2018, round baler, 46000 rolls knives sold as traded, just out of paddock working. Inoculant tank not available. Located Trafalgar contact Ron 0412 544077. 805557. TA1161382. **\$39,900**



CASE IH PUMA 125 2013, AFS, hours: 5275, HP 125, VIN/Serial #: ZCBL57986, front tyre size: 380/85R28 front tyre %: 70, rear tyre size: 460/85R38 rear tyre %: 70. HYD auto steerR - AG leader. ZCBL57986. TA1151504. **\$72,000**



CASE IH PUMA 165 Classic 2019, classic hours: 3790 480/70-30 front 60% 620/70-42 rear 40%. Cab suspension, instructor seat, LED lighting pack and new design roof. 540/1000 Rear PTO. Zjhb50781. TA1152260. **\$130,000**



MASSEY FERGUSON 390 1993, 4WD tractor- 7941 hrs. 4.1L Perkins engine, 79HP, 12 speed transmission. 18.4R30 rear tyres, 12.4R24 front tyres. Call Will Ellis: 0475 004 436. A33054. TA1155716. **\$29,700**



NEW HOLLAND TD60D 2011, #200607 hours: 2041, hp 60, VIN/Serial #: HFD038632, front tyre size: 11.2 R - 24, rear tyre size: 16.9 R - 30 rear. HFD038632. TA1150880. **\$48,400**



POTTINGER NOVA CAT 352 2018, rear linkage mower conditioner, VIN/Serial #: 37840001199. Ready to go, located Trafalgar 03 56331588, has matching front Novocat 301 TC for extra \$25K. 37840001199. TA1160627. **\$20,000**



POTTINGER 301 Novocat301 tyre conditioner 2018, mower conditioner, VIN/Serial #: 37610010575. ready to go, located Trafalgar 56331588, has matching Novocat 352 rear linkage conditioner for extra \$20,000. 37610010575. TA1160626. **\$25,500**



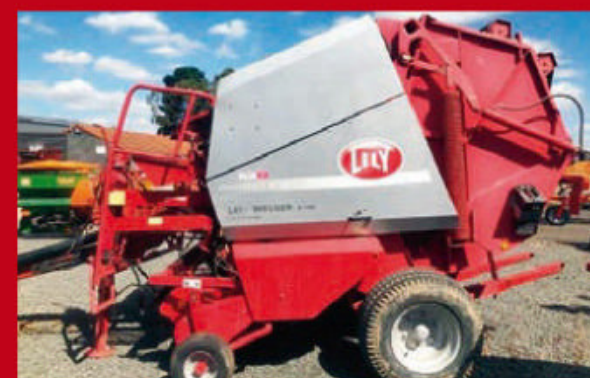
KUHN GMD 310 F FRONT MOWER 2018, 3 meter, mower, demo model. Located Trafalgar 03 56331588. A0955. TA1005568. **\$24,000**



GENDORE T1400SF 2003, 2003 Gendered T1400SF, Bale Wagon/Feedout, VIN/Serial #: 2140. 2140. TA1039349. **\$18,700**



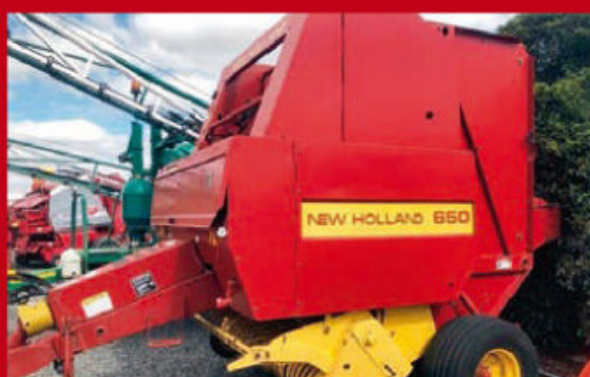
KUHN VB2190 round baler, netwrap, 22000 bales. Located Tasmania call Tas Mundy 0400 077953. VGRL001969. TA1077060. **\$28,000**



LELY V160 round baler, Netwrap. Located Tasmania call Simon Maloney 0419 348023. 175800272. TA1077054. **\$20,000**



VICON RV2160 2008, round baler/wrapper bale Pack bales: 55000. Located Trafalgar. Contact Andrew Noonan 0412 610903. VGRW000382. TA1115035. **\$38,900**



NEW HOLLAND 650 round baler, netwrap. Located Tasmania. Call Simon Maloney 0419 348023. 910943. TA1077051. **\$12,000**



KUHN VBP 2190 2016, balepack, round baler/wrapper, bales: 7149, selling due to upgrader Located Trafalgar. Contact Ron Hampton 0412 544077. VGRB000531. TA1115029. **\$93,500**



VICON RV1601 round baler/wrapper. Combination paddock ready. Located Trafalgar. Call Andrew Noonan 0412610903. RW0000033. TA1062282. **\$55,000**

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HARDI COMMANDER 5030

c/w 30m steel boom, 5 section, PTO pump drive, Granni pot, 5500 monitor, 363 pump, good condition. 51193. TA1148454.

\$44,000



CASE IH PUMA 180

c/w 3PL, FM750/Ez steer, 2019 model, excellent condition. OBC93. TA1128084.

\$178,750



HARDI NAVIGATOR 6036

c/w 5500 controller, hyd drive pump, mudguards, fence line nozzles, excellent condition. (on behalf of client). OBC94. TA1154642.

\$132,000



CASE IH STEIGER 500

500HP, 2016 model, c/w PR0700, 800/70R38 duals, excellent condition. OBC100. TA1158576.

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51199. TA1055134.

\$77,000

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A/H Mario Mete 0438 389 916

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MORRIS C2 CONTOUR DRILL 70 FT 70ft, 10" spacings, single shoot air package, tyres sound, 5 section, new boots last season. At our Echuca dealership. S520. TA1142271.

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NEW HOLLAND BC5070 Small square baler, going through workshop, well looked after baler, at our Echuca dealership ring 0354822788. S498. TA1113308.

\$35,200



POTTINGER 762C twin rotor rake, well looked after hyd fold & hyd in & out, 2016 model, ready to go. Echuca Yard. S523. TA1150919.

\$30,800



NEW HOLLAND BB1290 PLUS STANDARD PACKER FEEDER 8x3x4, done 20,460 bales, moisture meter, weigh scales, camera, going through workshop. At our ECHUCA Dealership 0354822788. S490. TA1099744.

\$146,300



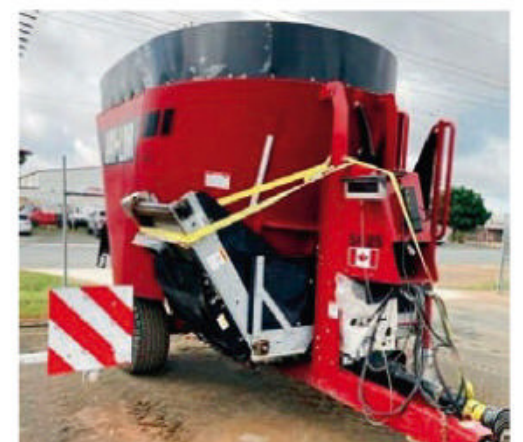
NEW HOLLAND BR7070 CROP CUTTER crop cutter, 27,400 bales, been through workshop, ready to go. Echuca dealership. S527. TA1154817.

\$30,800



NEW HOLLAND 316 STEEL ROLLER CONDITIONER mower conditioner, 5 meter cut, steel rollers, redone cutter bar & serviced. S529. TA1154820.

\$52,800



JAYLOR 5425 Single Auger Mixer, 5425, 2021 model, been through workshop, traded in on bigger unit. Echuca Dealership 0354822788. S526. TA1154815.

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MT653 Low kms	\$3,300
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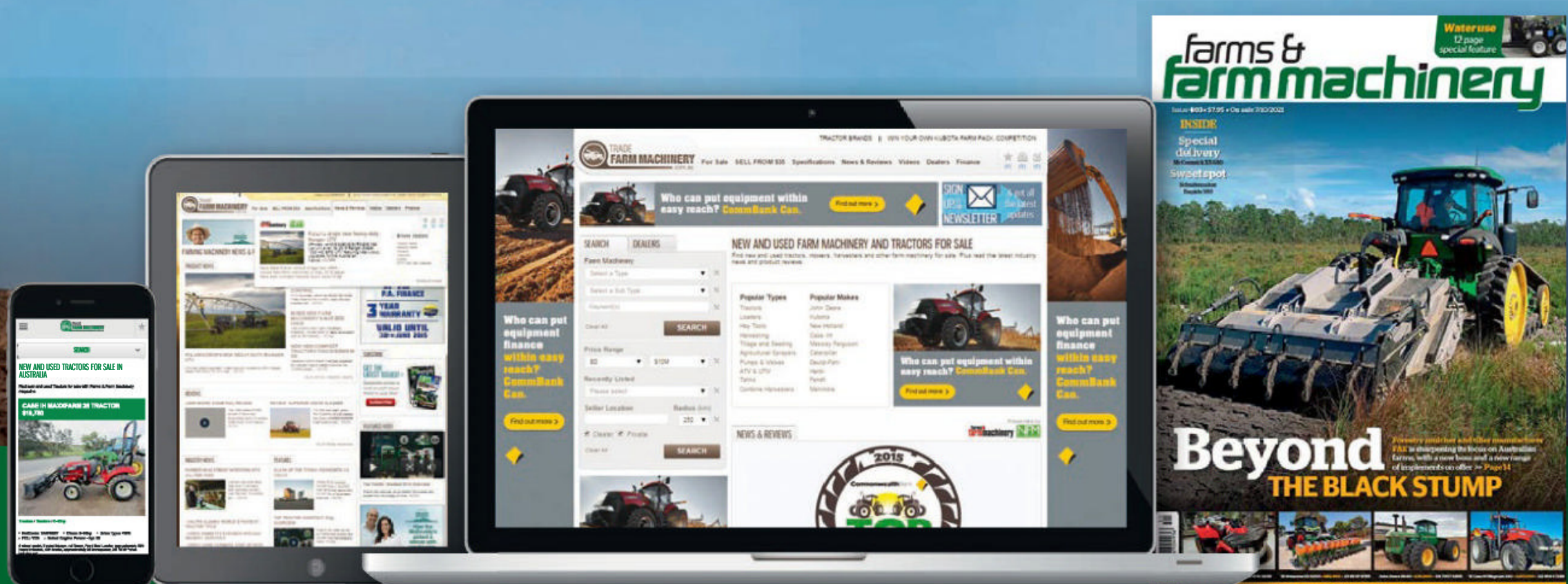
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2010, Single 250mm Nozzle
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7 Section EFC
Filtered Fresh Water Fill
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TA1150796.
\$60,500



**HARDI 5036
COMMANDER**
2012, 5000 poly tank
36m force boom, single
nozzels
Boom wheels - 7 section
Tyres - 18.4 - 38 - 90%
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102803. TA1148340.
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**HARDI COMMANDER
5030 V**
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HARDI NAVIGATOR 4030
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60 litre chemical hopper
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TA1117892.
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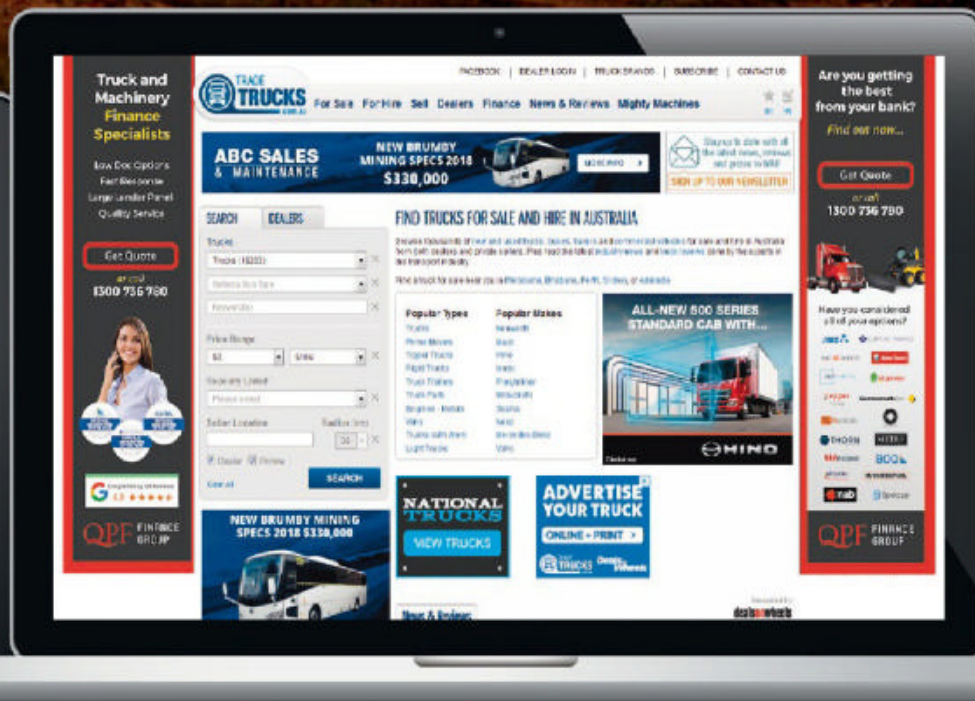
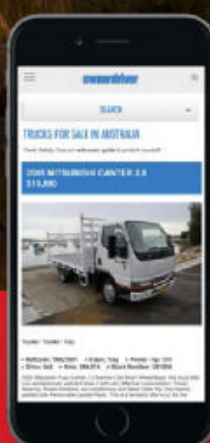
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REBEL EQUIPMENT .
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10 bale grab. S28. TA1125372.
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15 bale Tautliner grab. S25. TA1125369.
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with crate. S1. TA1125366.
POA



REBEL EQUIPMENT 4M X 2M
3500kg GVM. S24. TA1125368.
POA

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A/H (03) 5865 8262

Lot 3, Murray Valley Highway
PO Box 26, Cobram, Vic 3644



ACN 086 668 108



MASSEY FERGUSON



KRONE COMPRIMA CV 150 XC
150 XC combination round baler wrapper, one owner, low bale count. In excellent condition. S45. TA1103402.

POA



MASSEY FERGUSON 9560
Class 8, in excellent condition. One owner. Fronts available. Will be workshop serviced. S46. TA1137962.

POA

COMBINE

MASSEY FERGUSON 9560 CLASS 8 COMBINE one owner in excellent condition with canola pick up and 40 foot flex grain fronts dual wheels to be workshop serviced.....POA

MOWER CONDITIONER

MASSEY FERGUSON 1345 12 FT STEEL ROLLERS CENTRE SWINGPOA
TAARUP 4232 3.2 mtr roller conditionerPOA
KUHN 3506 3.5 MTR steel flail conditioner, swivel hitchPOA
TAARUP 4036 3.5 MTR flail mower conditioner one owner.....POA
VICON EXTRA 632T 3 mtr flail mower conditioner linkage mount.....POA
TAARUP 307 3.2 MTR flail mower conditionerPOA

MOWERS

TAARUP 2832F 3.2MT FRONT MOUNT DISC MOWER late modelPOA
CLAAS 260 DISCO disc mower going through workshopPOA

ROUND BALER

NEW HOLLAND ROLL BELT 180 CROPCUTTER one ownerPOA
KRONE COMPRIMA CV 150 XC baler wrapper combo one owner low bales excellent condition.....POA
VICON 1601 5X4 ROTOR FEED NETPOA
MCHALE V660 5X4 ROTOR FEED ONE OWNERPOA
WELGER 520 6X4 ROTOR FEED AND KNIVES GOOD BALER.....POA
CASE 528 5X4 rotor feed net wrap and knivesPOA
CASE 628 6X4 rotor feed net wrap.....POA
JOHN DEERE 535 6X5 baler has netPOA
CLAAS 280 6x4 roto feed string and netPOA
JOHN DEERE 467 6x4 Round Baler roto feed and netPOA
CLAAS 280, 6x4 roto cut, string and netPOA
GRASSLANDS, 6x4 Silage Baler, wide pick upPOA
JD 590, 6x4 Round Baler, going through workshopPOA

HAY RAKES

LELY S485 SINGLE ROTOR 4.5 MT late model.....POA
MASSEY FERGUSON RK 3880 10MT twin rotor rotary rake.....POA
GENDORE 6500 6.5 twin rotor rotary rakePOA
KUHN GA 7301 7.5 mt twin rotor rotary rakePOA
KUHN 5.8 mt twin rotor rotary hay rake.....POA

SQUARE BALERS

MASSEY FERGUSON 2270 XDTC 3X4 rotor cut tandem axle one owner fully serviced.....POA
MASSEY FERGUSON 190 4X4 going through workshop has 2190 crank and reduced height chamber.....POA
NEW HOLLAND 1210 3x4 Square BalePOA
MF 185 3x3 Square BalerPOA
CASE 8580, 4x4 Square BalerPOA

TRACTORS

CASE JX 60 WITH F/E LOADER one owner low hoursPOA
MASSEY FERGUSON 5710 100 HP ROPS WITH F/E LOADER one owner low hoursPOA
MASSEY FERGUSON 7614 140 HP AUTO STEER one owner excellent.....POA
MASSEY FERGUSON 8260 210 HP A/C CAB FRONT END LOADERPOA
CASE MXM 190 190HP FWA A/C CAB FRONT END LOADER.....POA
MASSEY FERGUSON 5465 110 H.P. FWA A/C CAB one owner tractor.....POA
MASSEY FERGUSON 6445 90 HP A/C Cab One owner tractor in excellent conditionPOA
CASE MXM 175 177 HP FWA POWERSHIFT one ownerPOA
MASSEY FERGUSON 6265 105hp FWA A/C Cab Burder LoaderPOA
MF390 85HP Loader 4WD Shuttle ShiftPOA
DEUTZ AGROTRON 90 MK3 90HP FWA A/C cab and F.E.LoaderPOA
MF590 80HP, A/C cab, engine rebuiltPOA
ISEKI SX 75 A/C cab, FWA, linkage one ownerPOA
MF 394-4 Orchard Tractor, 80HP, Konig A/C cabPOA
INTER 484 ROPS frame, 2WD, remotesPOA
DAVID BROWN 880 with F/E loaderPOA
MASSEY FERGUSON 6150 95 HP A/C Cab Front end loader Going through workshop

SPREADERS

VICON ROXL ISO EDW 3900 LT HOPPER 36 MT SPREAD AUTO WEIGHT APPLICATIONPOA

SPRAYERS

HARDI COMMANDER 10000 LT 45 MT ALUMINIUM BOOM WITH NORAC HEIGHT AND ISOBUS.....POA

HAYMOWERS SLASHERS MULCHERS



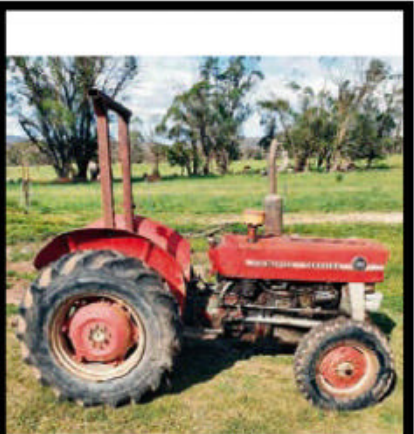
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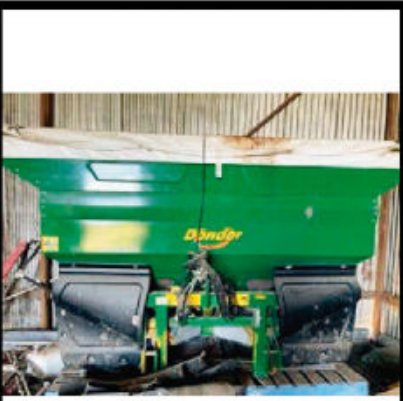
BALZER 2023
Chaser bins available for 2023 harvest. Tandem axle sizes available- 42t & 47t. Tridem axle sizes available- 42t, 47t, 60t, 70t & 78t, BALZER. VIC. DIY1161023. 0456 558 105.
\$220,000



KUBOTA L48 2004, Please email only. Full cab machine, four wheel drive (4X4), quick tach front bucket that will take skid steer attachment reading, 4023 hours, L48. NSW. DIY1159183. 0476 857 122.
\$9,500



MASSEY FERGUSON 135 DIESEL
135 diesel tractor, 1 new rear tyre, approx 5,000 hours, 128981. NSW. DIY1160316. 0418 200 390. **\$8,800**



FARMTEC FERTILISER SPREADER
2015, hardly used, in good condition, 3004107. QLD. DIY1159960. 0428 933 685. **\$9,950**

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Hot DEALS

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Just \$26,990!

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Uhi UWL916

1.6T capacity Wheel loader with free 4 in 1 bucket and forklift attachment. Perfect size for farm or construction use, pilot control with joystick, air cushion seat, diesel 4 cyl engine.



Just \$18,990!

Scan to view:



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Uhi UME15

New model arrives, Uhi 2022 UME15, 1.5T mini excavator, Kubota engine!



Just \$42,000!

Scan to view:



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02 9064 7220

Uhi US40K

New model US50K skid loader, top brand quality, 900kg loading capacity, Yanmar engine 68HP, 4 in1 bucket.



Just \$24,990!

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Uhi UWL807

Perfect size for agriculture, farm, nursery and construction user. comfortable eclectic valve hydraulic pilot control with a joystick, Safety flashing beacon warning light. 4WD drive.



Just \$24,990!

Scan to view:



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Uhi UWL811

Articulated mini loader 1T loading capacity, 34HP diesel engine, Italian hydraulic control system, joystick control. Hydrostatic drives function.



Just \$54,000!

Scan to view:



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02 9064 7220

Uhi U550K

68 HP, EUROPS, 900KG loading capacity, 4in1 bucket. Yanmar engine.



Just \$35,990!

Scan to view:



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02 9064 7220

Uhi LG938/LG820

Super air-condition, 3 seconds extreme cooling. Cab with ROPS & FOPS certification & vehicle, backup camera.



Just \$41,999!

Scan to view:



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Uhi LG940/LG825

The hydraulic system has been upgraded to H-type oil pipe joint to prevent hydraulic oil leakage. Free hydraulic quick hitch, fork attachment, 4 in 1 bucket included.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

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Just \$32,990!

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UHI UWL810T

Telescopic Articulated Mini Loader,, 900KG loading capacity, 25HP Kubota Diesel Engine.



Just \$69,990!

Scan to view:



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UHI UWL350

New wheel loader, 6 cyl cummins, auto trans, 3500kg load rated.



Just \$30,990!

Scan to view:



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UHI 454

Power Steering, 400kg Front End Loader, 45HP Diesel Engine, Euro quick hitch, FEL 4 in 1 bucket, 200mm bucket, slasher and backhoe.



Just \$34,990!

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UHI UHI554

600KG Loading Capacity, 55HP Diesel Engine, Free Euro Quick Hitch FEL 4 in 1 Bucket, 300mm auger, 200mm trench bucket, Slasher and backhoe



Just \$53,990!

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UHI UHI1004

100hp 4wd with front end loader, Euro quick hitch FEL 4-1 bucket, 1000kg front end loader SWL, 12 inch dual functional clutch with metal ceramic friction plate.



Just \$44,990!

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02 9064 7220

UHI UHI1754

75hp 4wd with front end loader, Euro quick hitch FEL 4-1 bucket, 800kg front end loader SWL, 11 inch dual functional clutch with metal ceramic friction plate.



Just \$18,700!

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2003 Gendore T1400SF

2003 gendered T1400SF, bale wagon/feedout, VIN/Serial #: 2140.



Just \$55,000!

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Vicon RV1601

Round baler/wrapper combination paddock ready. Located Trafalagar.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

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**Just
\$17,600!**

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2003 CASE IH DCX131

Mower conditioner 4m steel rollers with travel buggy in working conditioning As Is



**Just
\$39,900!**

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2018 McHale V660

Round baler, 46000 rolls knives sold as traded, just out of paddock working. Inoculant tank not available. Located Trafalgar.



**Just
\$29,700!**

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1993 Massey Ferguson 390

7941 hours, 4.1L Perkins engine, 79HP, 12 speed transmission, 18.4R30 rear tyres, 12.4R24 front tyres.



**Just
\$38,900!**

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2008 Vicon RV2160

Round baler/wrapper bale pack. Bales: 55000. Located Trafalgar.



**Just
\$79,000!**

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2008 Case IH Magnum 215

Tractor only. Hours: 9334, HP 215, VIN/Serial #: Z7R05604, front tyre size: 480/70R34 front tyre %: 30, rear tyre size: 480/80R50 rear tyre %: 20.



**Just
\$105,000!**

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2010 Case IH Puma 165

Cab tractor, 6055 hours, hp 165 + boost, 16.9R30 front tyres 80%, 20.8R42 rear tyres 80%. Workshop checked.



**Just
\$62,700!**

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2009 Case IH Maxxum 125 ULT

Multicontroller. Hours: 8000, HP 125, good tyres, been through workshop.



**Just
\$140,000!**

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2019 Case IH Puma 165 Classis

3565 hours, HP 165, VIN/Serial #: Zhbh50515. 480/70-30 front 80% 620/70-42 rear 70% 70. Zuidberg front linkage & PTO. Cab suspension 540/1000 rear PTO, 3 x rear remotes.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

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Just \$130,000!

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2020 Case IH Puma 165 Classis

3790 hours, 480/70-30 Front 60% 620/70-42 Rear 40%. Cab suspension, instructor seat, LED lighting pack and new design roof. 540/1000 Rear PTO, 3 x rear remotes.



Just \$48,400!

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2011 New Holland TD60D

#200607 hours: 2041, hp 60, VIN/serial #: HFD038632, front tyre size: 11.2 R - 24, rear tyre size: 16.9 R - 30 rear.



Just \$88,000!

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2012 Case IH Puma 130

4943 hours, HP 130, front tyre Size: 300/85R 28 front tyre %: 50, rear tyre size: 600/65R38 rear tyre %: 70. VIN/Serial #: ZCBP53570



Just \$20,000!

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2018 Pottinger Nova Cat 352

Rear linkage mower conditioner, VIN/Serial #: 37840001199. Ready to go located Trafalgar, has matching front Novocat 301 TC for extra \$25K.



Just \$25,500!

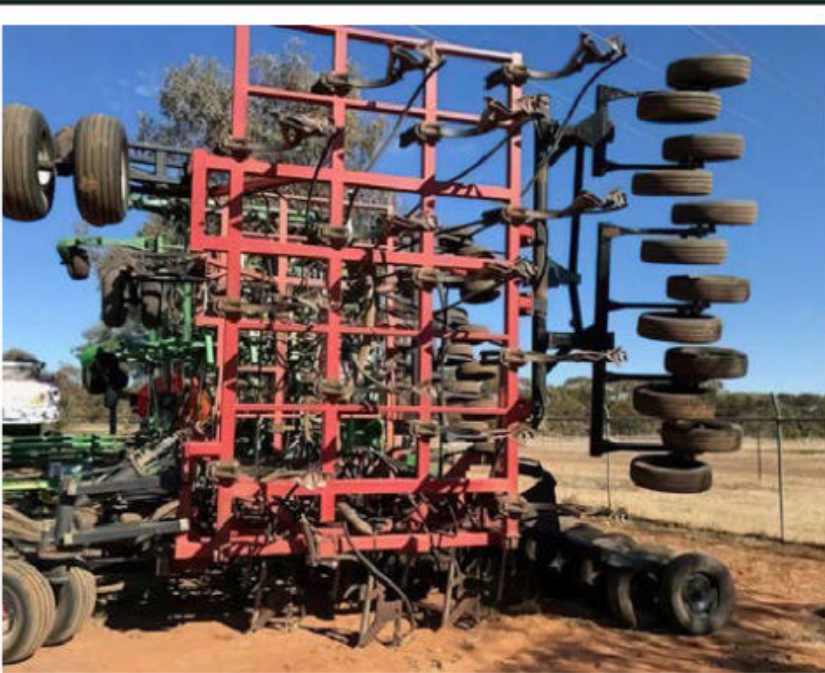
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2018 Pottinger 301 Novocat 301

Mower conditioner. VIN/Serial #: 37610010575. Ready to go, located Trafalgar 56331588 has matching Novocat 352 rear linkage conditioner for extra \$20,000.



Just \$38,500!

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CASE IH Concord 4012

Air Drill. 40ft single fold frame with 4 rows of 500lb trips spaced at 12 Inch rows, single shoot air package. knife point opener with 6 Inch seeding sweep. New matching packer tyres



Just \$181,500!

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03 8547 8639

Rogator 1386 2010 Model

120ft boom, 6250L tank, fill pump, 4450Hrs, 480/80R42 tyres, Raven SCS5000 rate controller, Trimble CFX 750 with ez pilot, RTK unlocked (no radio).



Just \$110,000!

Scan to view:



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03 8547 8639

Paxton Pluw CO Sr6 2019

Demonstration Model Paxton Plow. 9 Tine 500 mm spacing unit with culti roller.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



**Just
\$302,500!**

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Case IH 8230 2012 Model

With 45 Ft Front Axial Flow Combine Harvester, 2965 Rotor Hrs, 3890 Engine Hrs



**Just
\$71,500!**

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Massey Ferguson 6465 2005 Model

Powershift transmission, front suspension, rear linkage, PTO. Front end loader with standard bucket. Neat and tidy tractor located in Swan Hill.



**Just
\$357,500!**

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Case IH 7140 2015

Axial flow combine harvester, 1260R hrs 1900E hrs, 800/70R38 drive tyres, PRO700 NAV & 372 receiver, UHF. Located at Swan Hill Branch.



**Just
\$357,500!**

Scan to view:



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03 8547 8639

Case IH 7140 2015

Axial flow combine harvester, 1287r hrs 1951e hrs, 900/60R32 drive tyres, PRO700 NAV & 372, UHF. Located at Swan Hill branch.



**Just
\$385,000!**

Scan to view:



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03 8547 8639

Case IH 7240 2016 Model

1788R & 2192E hours, dual drive wheels, Pro700 Accuguide auto steering with 262 H.P receiver. Red leather seats, cooler box, electric bin lids, folding auger.



**Call for
pricing!**

Scan to view:



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CASE IH JX 95 High Clearance 2012

1,92 5hours, synchro transmission with creep gears, excellent condition.



**Just
\$687,500!**

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Case IH 7250 2020

With FD145 front. Axial flow combine harvester, 745 rotor hrs, 1120 engine hrs, AFS harvest command, chopper, Goodyear IF800/70R38 single drive tyres.



**Just
\$110,000!**

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2018 Croplands Pegasus 7000

36M boom with hydraulic wing tilt, Hypro product pump, left & right fence line nozzles. Light kit, 1500L flush tank, 710/70R42 tyres @95%.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

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Connor Shea 9' Disc Seeder
Ready to work.

Call for pricing!
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02 6171 3997

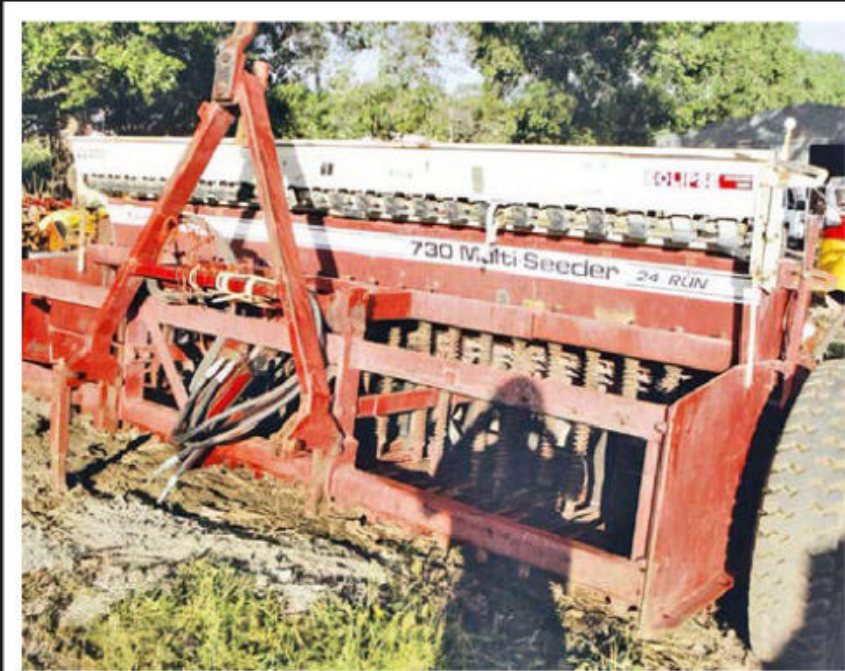


Connor Shea 3PL 5' Seeder
Used.

Call for pricing!
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Duncan 24 Run Double Disc Seeder
With 3 boxes.

Call for pricing!
Scan to view:



or call
02 6171 3997



Agrow Plough 14 Tyne
3PL subsoiling plough.

Call for pricing!
Scan to view:



or call
02 6171 3997



Connor Shea Disc Seeder
Used.

Call for pricing!
Scan to view:



or call
02 6171 3997



New Holland Loader
New Holland 471 hay loader delivery arranged Australia wide.

Call for pricing!
Scan to view:



or call
02 6171 3997



Southern Cross 30 Acre
Southern Cross 30 acre traveling irrigator. Delivery arranged Australia wide.

Call for pricing!
Scan to view:



or call
02 6171 3997



Connor Shea 7'
Baker boot seeder, 3PL.

Call for pricing!
Scan to view:



or call
02 6171 3997

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

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Shearer 32 Disc
Wheeled offset plough.

Call for pricing!

Scan to view:



or call
02 6171 3997



Marshall Belt Spreader
2.5 ton.

Call for pricing!

Scan to view:



or call
02 6171 3997



2004 Kanga Loaders DW625
2344 hours, 4 in 1 bucket, chain trencher, auger drive with auger, road sweeper.

Just \$55,000!

Scan to view:



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08 7007 6523



2020 Kubota U35-4
Excavator, 152 hours, extended warranty still applicable, 3.5 tonne excavator, elite hydraulic hitch, bucket set of 300mm GP, 450mm GP, 600mm GP and a 1200mm Trim.

Just \$68,000!

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2017 Hitachi ZX33U-5
Excavator, 2270 hours, 3.3 tonne excavator, A/C cab, hydraulic hitch, bucket set of 300mm GP, 300mm GUMMY, 450mm GP and a 1200mm trim. Emergency stop, travel squarkers.

Just \$58,000!

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2012 New Holland L213
Skid steer, 676 hours, Digga 4 in 1 bucket with teeth, safe work load (SWL) 590 kgs, mechanical control, fire extinguisher, spare wheel.

Just \$41,000!

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2022 New Holland C327
BRAND NEW 300 SERIES compact track loader. 74HP FPT engine, electro-hydraulic controls, enclosed air conditioned cab, 2 speed travel, ride control, self leveling system.

Call for pricing!

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2022 Case IH Farmall 60B
ROPS tractor, 2.5l 4 cylinder diesel engine, 60hp, ROPS, 4WD, 16 x 16 transmission, 540/750/1000 PTO, 3 point linkage - 1850kg lift capacity.

Just \$41,000!

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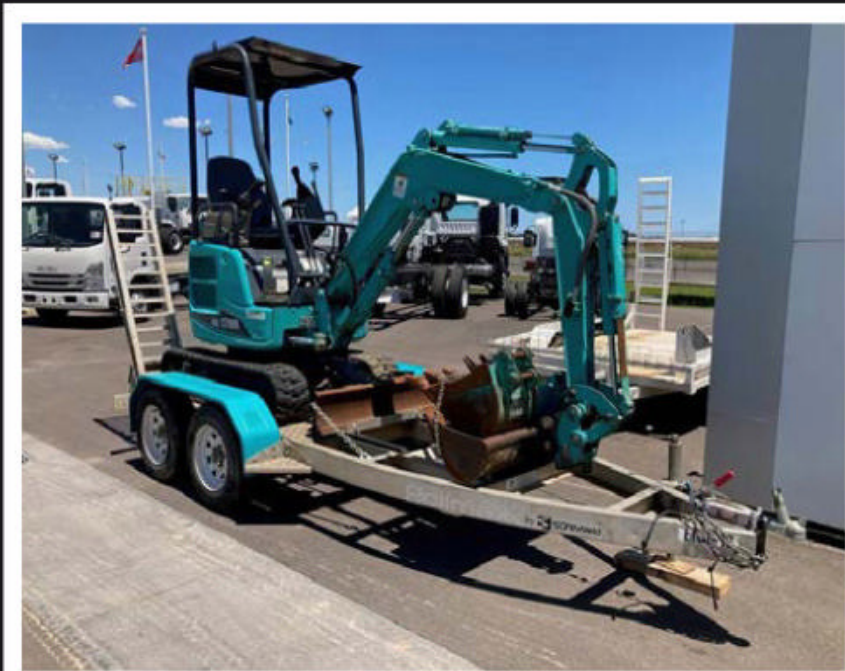


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Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



2015 Kobelco SK17
1.7t mini excavator. 1718hrs. Excellent condition. 300mm GP, 450 GP, and 900mm Mud bucket. Elite Hydraulic hitch. Emergency stop. Battery isolator. Sureweld alloy plant trailer.

Just \$42,990!

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2014 Bobcat E26
Mini excavator. Engine power - 24.8 HP. Maximum flow - 47.4 ltr/min. Operating weight - 2600 kg. 300mm, 450mm and 1000mm trim bucket. Hydraulic hitch.

Just \$35,990!

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2019 Volvo ECR18E
Excavator, 940 hours. Engine power - 16.3 HP. Maximum flow - 34 ltr/min. Operating Weight - 1800 kg. 300mm, 450mm and 1000mm trim bucket. Ripper. Hydraulic hitch.

Just \$54,990!

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2016 Case 580ST
3202 hrs, pilot control, hammer lines, extendahoe, safety Valves front and rear, mechanical Quick Hitch, 4 in 1 front bucket with roll over forks, tiltable steering wheel.

Just \$110,000!

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2018 New Holland T5.95
3268 Hours, 95 horsepower, 24 x 24 hi lo power shift transmission, wet clutch, 3 rear remotes, super steer front diff, UHF radio, LED light bar.

Just \$64,990!

Scan to view:



or call
08 7007 6523



2022 Kobelco SK210
With Quick Hitch pipe. Includes Kobelco's Geoscan excavator remote monitoring system.

Call for pricing!

Scan to view:



or call
08 7007 6523



2022 Kobelco SK380XDL
New. Clocks up 37,700 kg on the scales, making it the heaviest excavator in its class.

Call for pricing!

Scan to view:



or call
08 7007 6523



2019 Volvo ECR18E
Excavator, 940 hours, engine power - 16.3 HP, maximum flow - 34 ltr/min, operating Weight - 1800 kg, 300mm, 450mm and 1000mm trim bucket, ripper.

Just \$54,990!

Scan to view:



or call
08 7007 6523

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

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Just \$20,000!

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2009 Kuhn FC883 RA Triple Mower

Conveyer for single windrow, been sitting for a few years. Has wheels. Missing the control box. Machines were working well last time used.



Just \$9,990!

Scan to view:



or call
03 9998 4995

Willie's Manufacturing Elite

3pl Feeder. Strong robust design. User friendly maintenance. Australian made.



Just \$11,990!

Scan to view:



or call
03 9998 4995

Toro 6500.D

5 gang reel mower. 4 cylinder diesel. Hydrostatic drive, power steering, roof, comfort seat. Great finishing wide mower.



Just \$259!

Scan to view:



or call
03 9998 4995

Bushranger BRV2701

Bushranger BRV2701 blower vac. 27.2cc, 252 kph air speed, 2 stroke engine.



Just \$4,499!

Scan to view:



or call
03 9998 4995

Bushranger E-Rider 72v

Mini lawn tractor E-Rider. 30" cut. 72V motor. 5.9 kph speed.



Just \$3,099!

Scan to view:



or call
03 9998 4995

Bushranger LS252-25T Log Splitter

196cc Kohler engine, 25 ton splitting force. Horizontal or vertical operation. 10.9 second cycle time.



Just \$6,215!

Scan to view:



or call
03 9998 4995

Landpride FPS48 Plot Ranger

42" loading height, 16" notched disc blades, 48" working width, rear roller.



Just \$27,990!

Scan to view:



or call
03 9998 4995

Ford 6600 tractor

Good tidy forklift, extremely strong, Dalmore fork, power steering, rear remotes, ready to work, good tyres, 4 post roof, 3pl

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$2,050!

Scan to view:



or call
03 9998 4995

Kubota W821SC-AU

Self propelled walk behind mower. Honda GXV160 petrol engine. 4-stroke, 163cc. Fuel tank capacity 1.8l. 2-step gear shift. Travel speed: low 0.8m/sec high 1.2m/sec.



Just \$11,990!

Scan to view:



or call
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New Holland MC28

28HP 4WD diesel mower. 2 range hydrostatic. Power steering. 6 foot side discharge deck, 4 post roof. New paint. Works very well.



Just \$66,000!

Scan to view:



or call
03 9998 4995

Grillo FD13.09

4WD hydrostatic, 900ltr high lift catcher electric cutting, height adjustment, power steering, diesel.



Just \$44,000!

Scan to view:



or call
03 9998 4995

2008 Vicor RV2160

Low 29000 Bales, bale Wrapper combination, wide pickup, rotor feed, good condition.



Just \$10,990!

Scan to view:



or call
03 9998 4995

2022 Himac Grapple

Skid hitch power rake double grapple, 2400mm wide.



Just \$8,613!

Scan to view:



or call
03 9998 4995

Kubota T2290KWWT-48

48" deck, hydrostatic drive, Kawasaki twin.



Just \$52,990!

Scan to view:



or call
03 9998 4995

DEUTZ-FAHR Agrofarm 420

90Hp cab, level lift loader, 3rd function with soft ride, hydraulic shuttle, 4WD, diff lock, very good condition, GP bucket, bale forks.



Just \$16,990!

Scan to view:



or call
03 9998 4995

Land Pride RCF3684

Slasher, 4" cutting capacity, replaceable skid shoes, smooth top design, all welded deck, reinforced rear chain guard.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$18,990!

Scan to view:



or call
03 9998 4995

2005 Caterpillar GP25NT

2.5t forklift, container mast, hydraulic sideshift.



Just \$23,058!

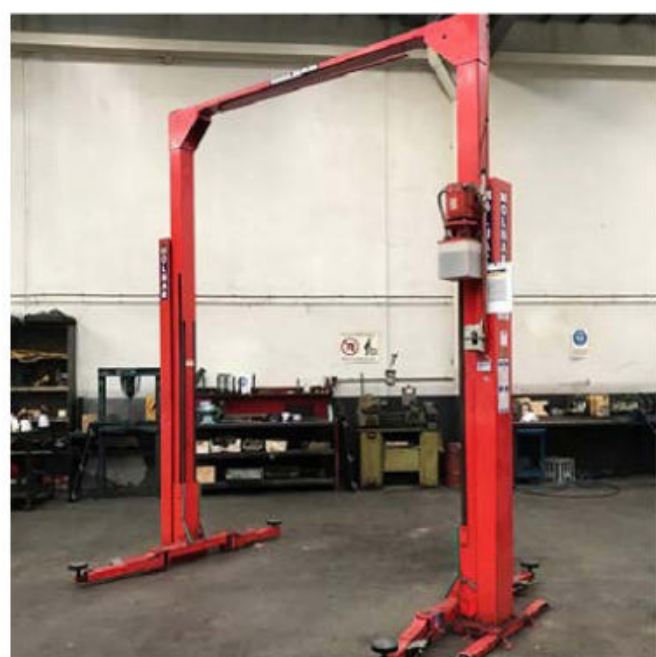
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03 9998 4995

2022 Kubota SE4325

Front and rear connect, 540/1000 rpm unit. Brand new immediate delivery.



Just \$2,500!

Scan to view:



or call
03 9998 4995

Molnar MF1705-93-OH-3T

Clear floor car hoist, type MF1705-93-OH-3T, 3 ton capacity, 2 post.



Just \$17,990!

Scan to view:



or call
03 9998 4995

Fella TS671

Rake. Good working condition. Ready to work.



Just \$60,000!

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or call
02 8279 7084

2017 Macdon R116

2017 Macdon R116 mower conditioner PTO pull type rubber rollers, tidy new blades.



Just \$19,800!

Scan to view:



or call
02 8279 7084

Case IH 1015 Canola Front

With single axle trailer, 50mm pull, belts sound, in good order.



Just \$55,000!

Scan to view:



or call
02 8279 7084

2012 Case IH 3016

15ft canola pickup front, 6 spline PTO shaft, hydraulic float, 2 axle trailer, lights, tidy.



Just \$154,000!

Scan to view:



or call
02 8279 7084

2017 Case IH Puma 165

Short wheel base, 3900 hours, AD blue, hydraulic steering, PRO 700, NAV II and 372 receiver, tinted windows, rear fender extensions.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$60,000!

Scan to view:



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02 8279 7084

2013 MST M542 Plus

Backhoe with 2000 hours. Ex council machine. 4wd.2-wheel steer, 3 speed powershift with auto. 3 rear buckets 800,600 and 400mm. 4 in 1 loader bucket, a/c cabin.



Just \$23,100!

Scan to view:



or call
02 8279 7084

2003 Bogballe M3 Plus Linkage

Spreader, 3pl spreader, 1500lt base, 2 factory extensions plus homemade extension, approx 4000l with hopper cover, calibrator icon controller, mudguards, lights 540pto.



Just \$9,900!

Scan to view:



or call
02 8279 7084

1978 Fiat 550

Open frame tractor. 55 HP. 8 speed syncro. Orange & blue series (Mfg. Italy) VIN: 517888, E/N 854*102, 18.4-28 rears (40%) & 750.16 front (40%) 7025 hours.



Just \$126,500!

Scan to view:



or call
02 8279 7084

2015 New Holland 1290

Crop cutter. Extensive pre season has been completed and its ready to baling, iso-bus controlled, 200l inoculant applicator, fully loaded with twine.



Call for pricing!

Scan to view:



or call
02 8279 7084

2022 Highline NT78

New 2022 rockpicker, hydraulic drive, 2mt picking width, 2.5CMT bucket.



Just \$34,100!

Scan to view:



or call
02 8279 7084

Amazon Ultra 4200 ZA-M Ultra

Amatron + controller, weigh scales, tarp., 36mt vanes.



Just \$121,000!

Scan to view:



or call
02 8279 7084

CASE IH 6088

2010 Case IH 6088 Header, SK#83526, YAG003499, Base Unit Only with 5,539 Engine hrs, 4,187 Rot hrs. 800/65R32 Front Tyres & 540/65R30 Steer Tyres. Pro 600 Display, UHF



Just \$19,800!

Scan to view:



or call
02 8279 7084

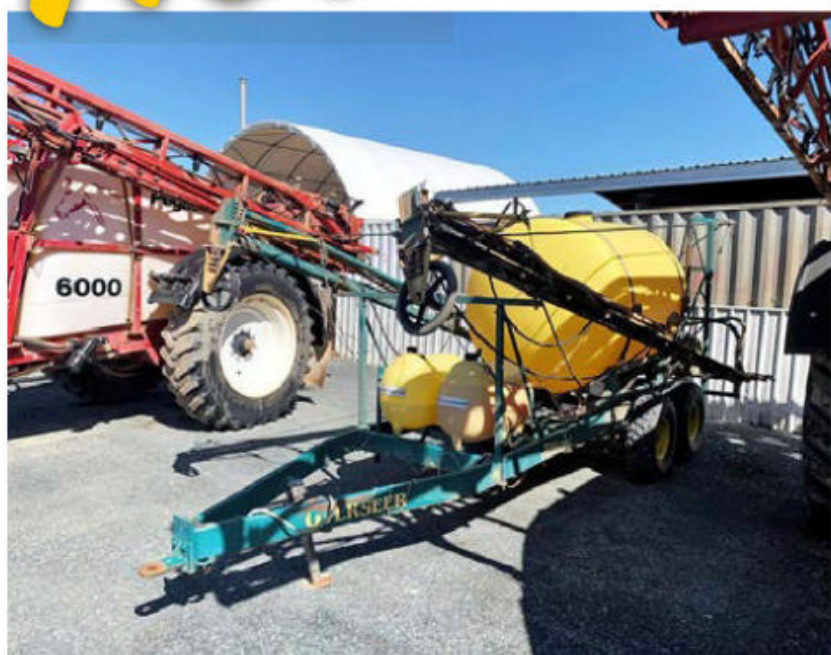
Case IH 1015 Canola Front

13ft 1015 canola front with single axle trailer, 50mm pull, belts sound in good order.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$9,000!

Scan to view:



or call
02 8279 7084

Jetstream Overseer 3000LTR 60

3000LT, 60FT, 3 section control box, in as is condition.



Call for pricing!

Scan to view:



or call
02 8279 7084

2021 header trailer

3 and 4 axle header trailers, combine windrower or dual purpose, rubber torsion axles, guards, lights, flashing light, 2 storage grates, ball race turntable, 40mm ring feeder.



Just \$23,100!

Scan to view:



or call
02 9199 7760

2018 John Deere Gator XUV855E

Has side entry screens and seat belts, 4WD XUV diesel all terrain, Bench seat in new condition gator yellow, has poly roof with front windscreen and rear cargo protection.



Just \$275,000!

Scan to view:



or call
02 9199 7760

2017 Bourgault 3720

40ft disc seeder on 7.5" spacing, single shoot, complete with a Bourgault 6450 tow behind bin and JD rate controller, also with a hydraulic bag lifter.



Just \$42,900!

Scan to view:



or call
02 9199 7760

2016 John Deere 469 Silage Special

Round baler, 19879 bales, 6 x 4 with covered edge surface wrap, bale push bar, hi flotation tyres and variable core valve. Located Albury.



Just \$110,000!

Scan to view:



or call
02 9199 7760

2016 Shelbourne XCV42

Suit John Deere. Some Repairs are required, parts can be supplied. Located Temora.



Just \$63,800!

Scan to view:



or call
02 9199 7760

2019 Duncan AG Renovator MK

Trailing renovator, 24 run on 6 inch spacings, fitted with new coulters and points and comes with tine harrows and rear hitch. Located Albury.



Just \$143,000!

Scan to view:



or call
02 9199 7760

2022 Massey Ferguson 6713

Near new with 22hrs, features MFWD, AC cabin with trainee's seat, power reverser 6 peeds with H/L manual transmission, PTO 540/540E/1000/, 3PTL with electronic controls.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$77,000!

Scan to view:



or call
02 9199 7760

2008 Case IH Maxxum 115

6085HRS configuration: Standard cab partial power shift 16 fwd. 4 rev/ MFWD Rear PTO: 540/1000.



Just \$231,000!

Scan to view:



or call
02 9199 7760

2019 New Holland T7.230

With 1396hrs, features, MFWD front suspension, cab suspension, autoCommand 50k transmission (IVT), guidance-ready with trimble RTX GPS with dual displays.



Call for pricing!

Scan to view:



or call
03 9116 6772

2022 Valtra S324

New cab tractor. AVT transmission, front PTO & linkage, GPS smart touch arm rest, reverse steer available.



Call for pricing!

Scan to view:



or call
03 9116 6772

2022 Elsworth Bale Buggy

New. Towed round bale feed out trailer.



Call for pricing!

Scan to view:



or call
03 9116 6772

2022 Farmtech HD Ripper FLR & Pipelayer

Single tyne ripper with attached pipe layer.



Call for pricing!

Scan to view:



or call
03 9116 6772

2022 Daken Post Hole Digger 82401DC 3 PL Auger

Auger drive with 100mm & 200mm auger.



Call for pricing!

Scan to view:



or call
03 9116 6772

2022 Rata Mole Plough HYD + Plug

Mole plough + blade + plug. Great for subsoil drain ripping.



Just \$77,000!

Scan to view:



or call
03 9116 6772

Bonino AB 70 TR

Self loading cutter wagon. Equipped with a rotating cutter bar with two drums adjustable in height, which allows a clean and precise cut even on undulating ground.

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Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Krone RX 400 GD
Used Krone RX400 silage wagon.

Just \$137,500!

Scan to view:



or call
03 9116 6772



Kioti PX1052
New. With loader and 4 in 1 bucket.

Call for pricing!

Scan to view:



or call
03 9116 6772



Kioti PX1153
New Kioti PX1153 with loader & 4 in 1 bucket.

Call for pricing!

Scan to view:



or call
03 9116 6772



Rata Powerclaw 180 Grab 1.8M
Versatile interlocking grab that can be used for fencing & wire cleanup, storm cleanup etc.

Call for pricing!

Scan to view:



or call
03 9116 6772



Feraboli Overmix 2TN-18
Used mixer.

Just \$60,500!

Scan to view:



or call
03 9116 6772



Kuhn Profile 2080
Mixer.

Just \$86,900!

Scan to view:



or call
03 9116 6772



2012 Mandam Gal-K6.0M
New. Folding 6.0m Gal-K discs with vring roller Mandam cultivation equipment.

Call for pricing!

Scan to view:



or call
03 9116 6772



Hansa T8
8 cubic metre capacity, single axle, ISOBUS, 50mm tow eye, black roll over tarp, load cells, wrap around mudguards, 23.1/r26 r1 tractor tyres, 36m urea/ 50m single super spread width.

Call for pricing!

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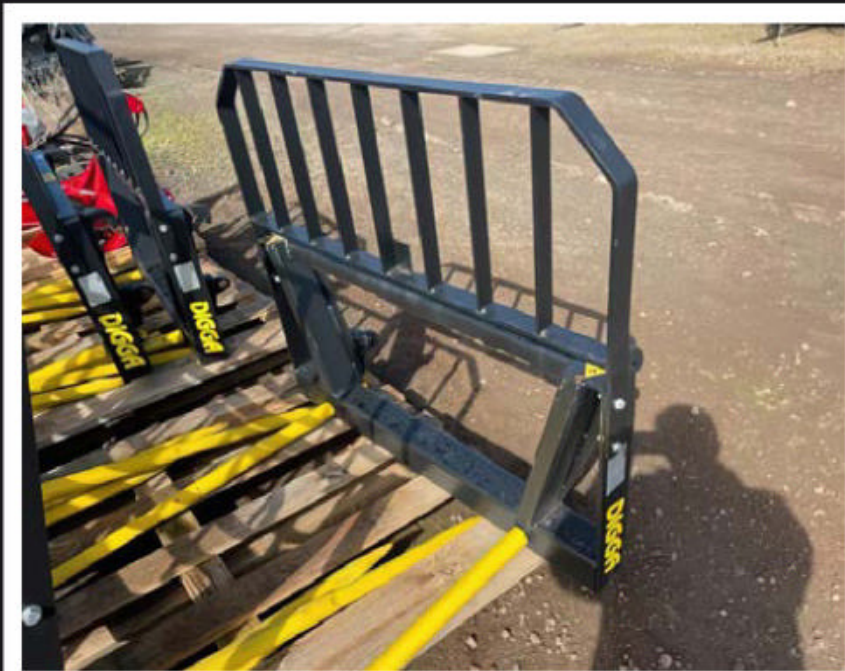


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Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



2022 Digga Hay / Pallett Forks
New round bale forks and high back extension and Euro hitch.

Call for pricing!
Scan to view:



or call
03 9116 6772



2019 Enorossi RT9 Wheelie Rake
Single slide 9 hay wheel towed rake, 5.9M max working width.

Call for pricing!
Scan to view:



or call
03 9116 6772



2021 JF Maquinas
Front linkage forage harvester. Minimal use.

Call for pricing!
Scan to view:



or call
03 9116 6772



Reese 3PL 2T Bale Feeder
New.

Call for pricing!
Scan to view:



or call
03 9116 6772



Tube-Line TL60LSV
New.

Call for pricing!
Scan to view:



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Zocon Greenkeeper 6M
Harrows with or without seed box.

Call for pricing!
Scan to view:



or call
03 9116 6772

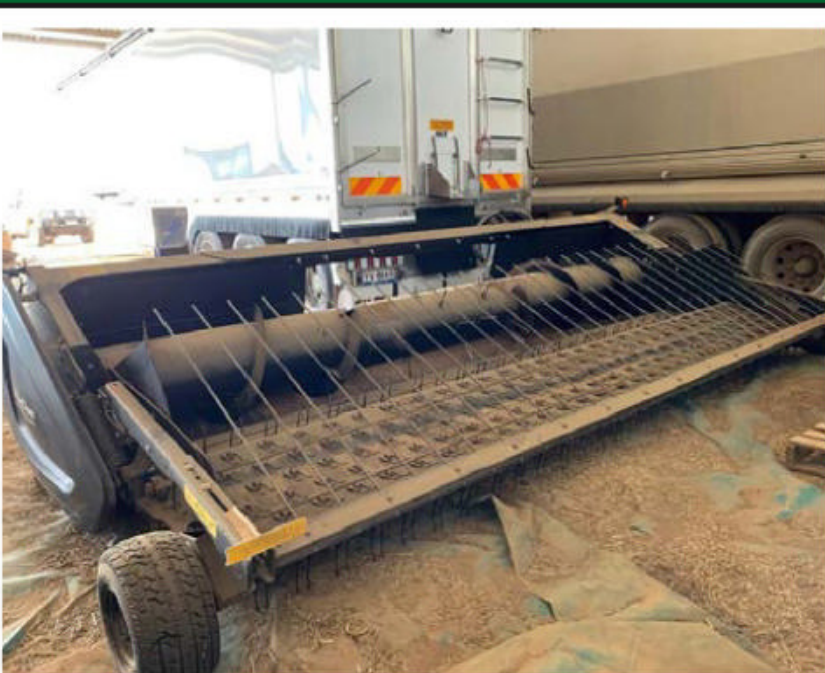


Joskin Siroko 5513/13V
Twin beaters, guillotine door, hydraulic brakes heavy duty chain and floor.

Call for pricing!
Scan to view:



or call
03 9116 6772



Macdon PW8
Suited John Deere S Series. Heavy duty draper tracking system, seed saving technology, serious capacity, simple adjustments, drop-and-go float performance, easy maintenance.

Just \$77,000!
Scan to view:



or call
03 8547 8800

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Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$121,000!

Scan to view:



or call
03 8547 8800

2016 Krone BP 1290HDP

High speed 6 string baler, approx. 43,000 bales, X-cut chopper, bale scales, tandem axle, monitor, Grevillia Inoculant applicator. Good condition.



Just \$22,000!

Scan to view:



or call
03 8547 8800

Goldacres 4030

5000x30M Boom Sprayer (2001) Raven Controller, CIH, PTO Dr. For more information contact Emmetts Rupanyup Dealership.



Just \$93,500!

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03 8547 8800

2013 Tobin 40'

Tobin disc seeder and Gason air cart. 40Ft No till Disc. 12 inch spacing. Gason air cart. 8000 litres. Ground drive, variable rate, two bin, Auger, Canlink 3500 control monitor.



Just \$9,900!

Scan to view:



or call
03 8547 8800

Topcon X20

Electric steering wheel, Nav controller with receiver and modem for full RTK.



Just \$220,000!

Scan to view:



or call
03 8547 8800

2017 Krone BP 1290HDP XC

High speed 6 string baler, approx. 16,000 bales, X-cut chopper, bale scales, tandem axle, monitor, Palmer Ag inoculant applicator & Gazeeka moisture meter. Excellent condition.



Just \$99,000!

Scan to view:



or call
03 8547 8800

Great Plains GP-3000TM

30' turbo max, vertical tillage tool. 0-6deg hyd gang adjustment, coulters, harrows.



Just \$1,056,000!

Scan to view:



or call
03 8547 8800

2022 John Deere S790

With Macdon 45Ft front, John Deere S790 MY22. Comes with GPS activation and 6000 receiver, MacDon D145 front, rigid 45FT, Leith trailer No 9.



Just \$22,000!

Scan to view:



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08 7007 6556

2007 New Holland BR750A Round Baler

Super feed round baler, has net and string options, comes with bale command plus monitor. 480/45-17 tires. 23,878 bales.

Please note that prices and details are indicative only, and items for sale may have changed. Please use the contact details on each item to find out more.

Hot DEALS

Scan the QR Code with your phone camera to find out more about these Hot Deals!



Just \$237,500!

Scan to view:



or call
08 7007 6556

2012 John Deere S680

Combine, 3869 engine hrs, 3100 rotor hrs, dual 20.8x42 tyres, straw chopper, 7.9M unloading auger, GS3 7" touch screen . Machine will be crop ready.



Just \$146,300!

Scan to view:



or call
03 9116 6773

New Holland BB1290 Plus Standard Packer Feeder

8x3x4 , done 20,460 bales, moisture meter, weigh scales, camera , going through workshop.



Just \$52,800!

Scan to view:



or call
03 9116 6773

New Holland 316 Steel Roller Conditioner

Mower conditioner, steel rollers, redone cutter bar & serviced Echuca Rural.



Just \$35,200!

Scan to view:



or call
03 9116 6773

New Holland BC5070

Small square baler, going through workshop, well looked after baler. At our Echuca dealership.



Just \$27,500!

Scan to view:



or call
03 9116 6773

McHale 991 High Speed

Silage wrapper, 991 high speed, been through workshop, ready to go. Echuca dealership.



Just \$31,900!

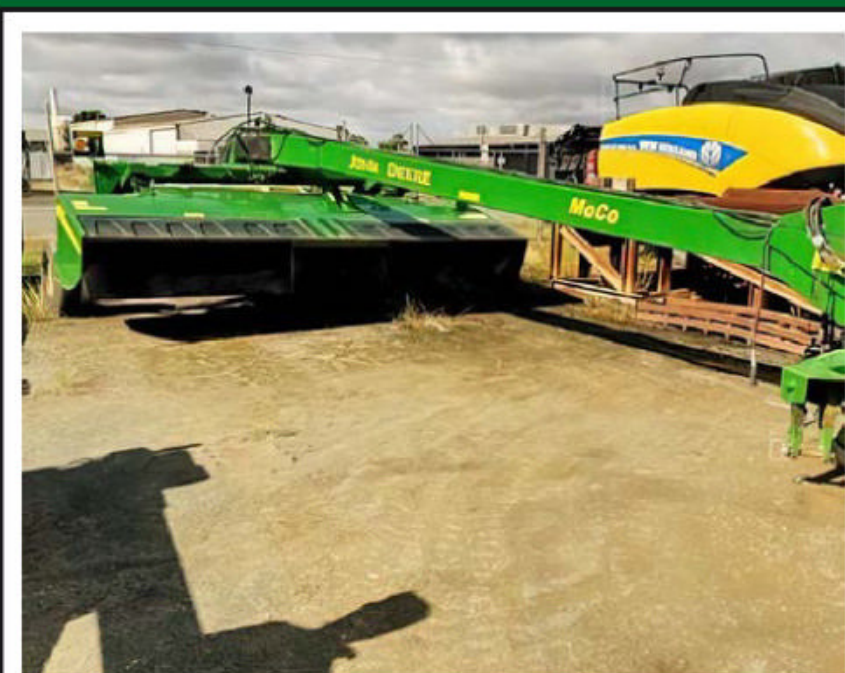
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New Holland BR7070 Superfeed

New Holland BR7070 Superfeed round baler, up to 6 foot capacity 26,636 bales, been through workshop, neat baler. At our Cobram Dealership.



Just \$44,000!

Scan to view:



or call
03 9116 6773

John Deere 956 Conditioner

Mower conditioner, 4.5 meter cut, steel rollers, 1000 pto, ready to go. Echuca dealership.



Just \$209,000!

Scan to view:



or call
03 9116 6773

Morris C2 Contour Drill 70FT

10" spacings, single shoot air package tyres sound, 5 section, new boots last season.

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The team at **Toyota Material Handling Australia** helped this Queensland pet products company start running with the big dogs.

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\$15,500

Shindaiwa DGA50C generator. Tier 3 diesel eng, 50KVA, 3 x 3 phase IP66 plugs • **VIC 0488 032 018**



\$8,000

2007 steel water spray tank 13,000L. Hoist well cut out. Batter sprays. 4" hyd PTO pump • **SA 0427 436 442**



\$60,000

Hyster H16.00XL. Perkins engine, auto trans with monotrol, 6.2m lift, 2 stage mast • **NSW 0429 493 184**



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The reliable TMHA forklifts help make servicing hassle-free for Budget Pet Products

Leader of the pack

The team at Toyota Material Handling Australia helped this Queensland pet products company start running with the big dogs

Durability and reliability are the key features of the Toyota Material Handling Australia (TMHA) forklifts that online pet retailer Budget Pet Products uses in its warehouse locations.

Based in Molendinar in South East Queensland, the retailer now has a team of more than 120 employees and multiple warehouse locations, providing affordable products to pet owners around the country.

But the company only started working with TMHA four years ago, after Budget Pet Products grew dissatisfied with their forklift supplier.

Budget Pet Products warehouse manager Cheryl Norvock said TMHA had proven to be an excellent partner through a period of growth.

"They have made serving and providing parts so easy," she says.

"Overall, the service has been great. One key difference is that TMHA has always partnered with us to help solve our growing pains."

Starting with a single 2.5-tonne Toyota forklift, Budget Pet Products now owns a mix of forklifts, order pickers and high lift pallet trucks, with Norvock praising their performance, durability and service offering.

"We've found the ideal balance of machinery features and service offering with TMHA. Our business is 24/7 with very little downtime - a machine with good features is nothing without the parts and service to back it up, and vice versa," Norvock says.

"We've have had various machinery over the last 13 years and find the combination of reliable Toyota forklift features and great service to be superior all-round offering."

Since its inception in 2009, Budget Pet Products has steadily grown its business by offering affordable products for a wide range of pets, from dogs and cats, to birds, fish, reptiles, and horses.

It has amassed over 350,000 customers and looks to continue to grow its burgeoning business. *fm*



Torqn founders Brett Baker, left, and Troy McDonald

Peer network

A new social media platform will help machinery operators swap tips about their machines

With Twitter facing serious challenges in the new year, two Aussie entrepreneurs have set up a new social network they hope will give operators, engineers, tradies and manufacturers quick answers to complex problems.

Troy McDonald, a career mechanical engineer and former president of Illawarra Coal, and entrepreneur Brett Baker have jointly developed Torqn, established as a social media site for mining equipment users but with the potential for use across industry.

McDonald says the app aims to be a global connection platform for users, suppliers, and regulators of industrial plant and equipment, creating one hub for sharable information about complex equipment.

"There's not much information online and whatever information there is, is usually all over the place and hard to find. So, you're searching for a needle in a haystack," he says.

Torqn app users sign up to collaborate in groups, called Loops, of people that have the same interest in the mining equipment they use - allowing safety notices to be shared quickly among users.

"If your machine alternator is playing up, you can post on your Torqn Loop to effectively ask for suggestions and solutions," McDonald says.

Similarly, if an operator has a great improvement idea they can post it into their Loop, and that includes providing valuable insights to the equipment manufacturers to help them improve equipment design or reliability.

A review platform will provide feedback aggregated from a series of user posts for a single piece of equipment - to help companies make their purchase decision.

And the Loop settings can be easily changed - allowing users to connect instantly, rather than building a network of experts over time.

"Social media sites can be used for a range of purposes and it's easy to imagine lots of use cases for Torqn."

Baker, who had spent a decade working in the mining industry as a safety and training manager, says during his time in the industry he found knowledge sharing to be difficult.

"Our Mining Regulators do their best to communicate safety alerts efficiently to the industry, but that is limited because they can only publish a safety alert on their website and email the alerts to their contact list that may not be up to date."

"Best case scenario, maybe a couple of people on a site with 400 employees gets an alert and then they have to decide what to do with the information. It may get lost in the day to day, very busy communications blur as well," he says.

Baker says that with the app, everyone signed up would get a safety alert immediately and would be able to act on it straight away.

The system is now up and running after McDonald and Baker raised \$3 million in seed funding. *fm*

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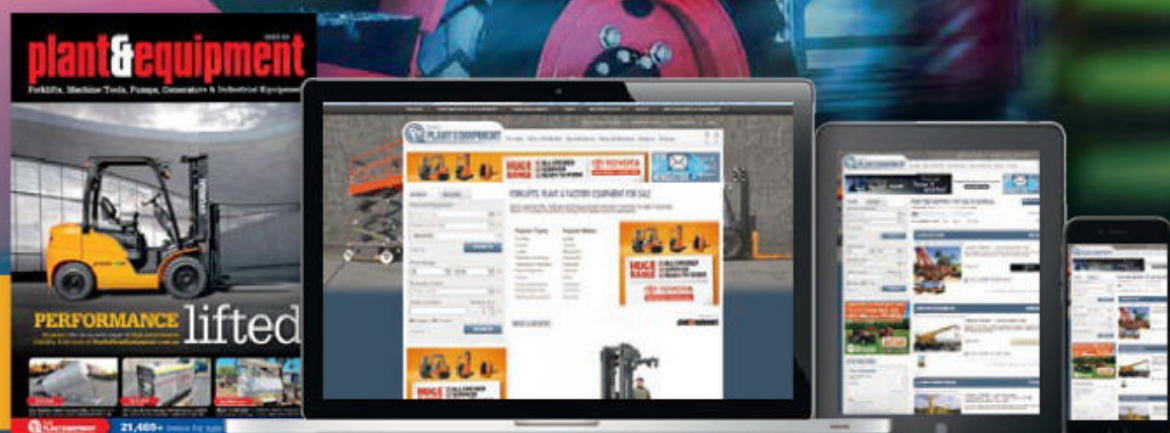
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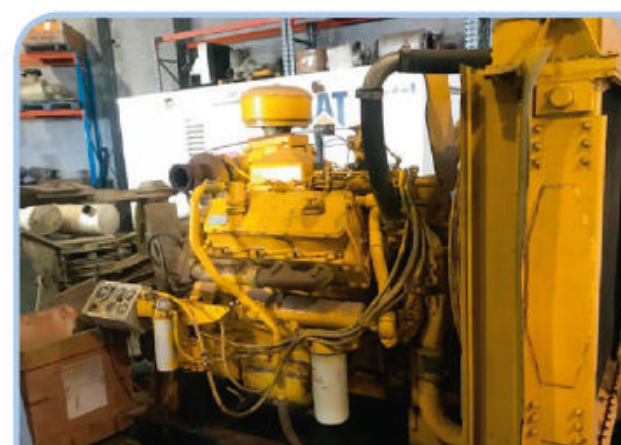
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300HP HEAT EXCHANGER
COOLED**



**NEW CUMMINS KTA19-M500
500HP HEAT EXCHANGER
COOLED**



**CATERPILLAR 3406-300
300HP HEAT EXCHANGER
COOLED**



**USED CATERPILLAR 3408
RADIATOR COOLED 375HP**



**NEW CUMMINS 4BTA3.9-GM47
HEAT EXCHANGER OR
RADIATOR INCLUDED
GENERATOR OR AUXILIARY**



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GENERATOR
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POWERPACK
CAT 3406 944HOURS**



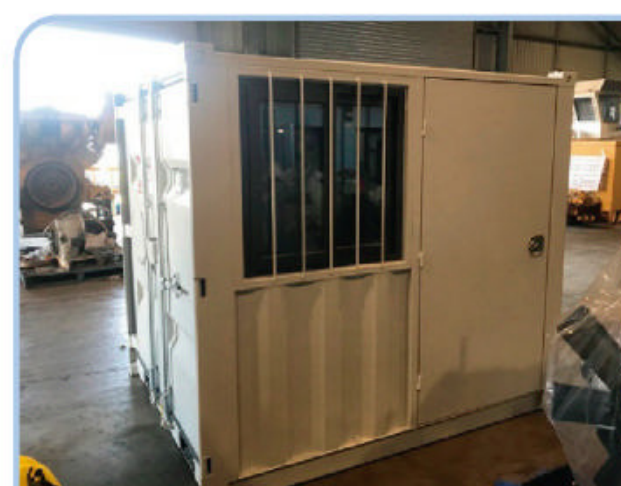
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KALMAR DRF450-60S5M 2012, Stacks laden 20x40 containers 5 high. Cummins QSM11 diesel engine. Dana 15.7TE32 xmsn. Axletech drive axle with wet disc brakes. AC cab. S99. TA1153810.
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HYSTER H18.00XM-12 2008, stacks 12,000kg highcube 20' & 40' 4 high. ELME 558 20x40 spreader with top entry twistlocks. Front line unit ready for immediate delivery. R3547. TA829125.
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HYSTER H18.00XM-12 with fork positioning sideshift carriage, 2440mm forks, Cummins engine, fully enclosed air conditioned cab - Option 20x40 sidelifte cont. frame. R3632. TA1124211.
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HYSTER H20.00F 2009, Smallest in this family of most robust 20 ton to 32 ton forklifts. Can land transport fully assembled ready for work Cummins engine, sideshift and fork positioning 2440mm forks. E008E02372G. TA1153814.
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HYSTER H16.00XM-6 2010, can stack 20' highcube containers 2 high circa 11,000kg at 1200mm. Cummins diesel engine. 2440mm forks, sideshift and fork positioning carriage A/C cab. S100. TA1153811.
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CATERPILLAR DP160N 2009, has sideshift with fork positioning and 2440mm long forks. Fully enclosed air conditioned cab, powershift transmission. Easy mast on transport ready for work with 4500mm lift height able to stack 20' highcube containers 2 high. T40A10068. TA1153855.
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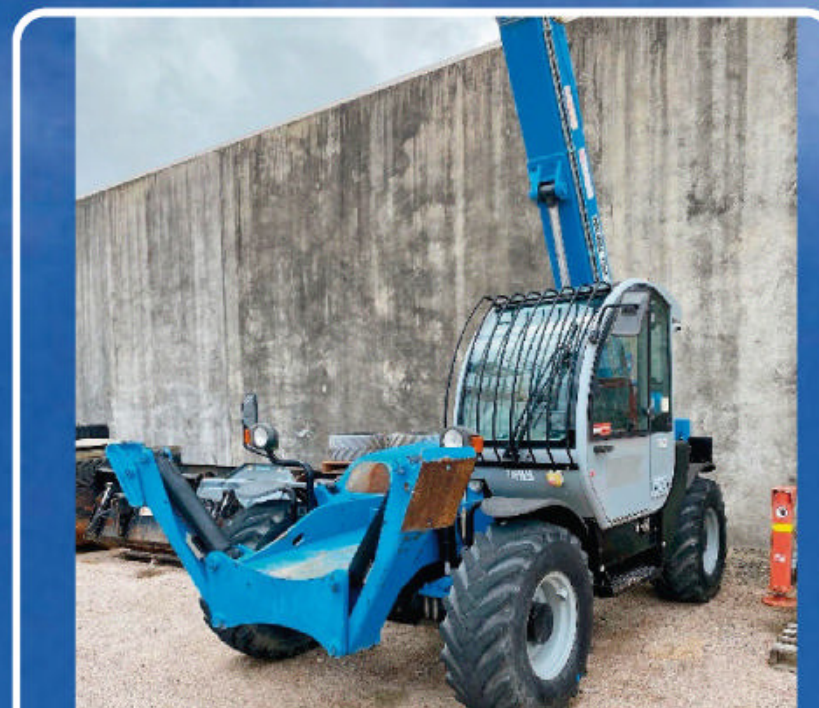
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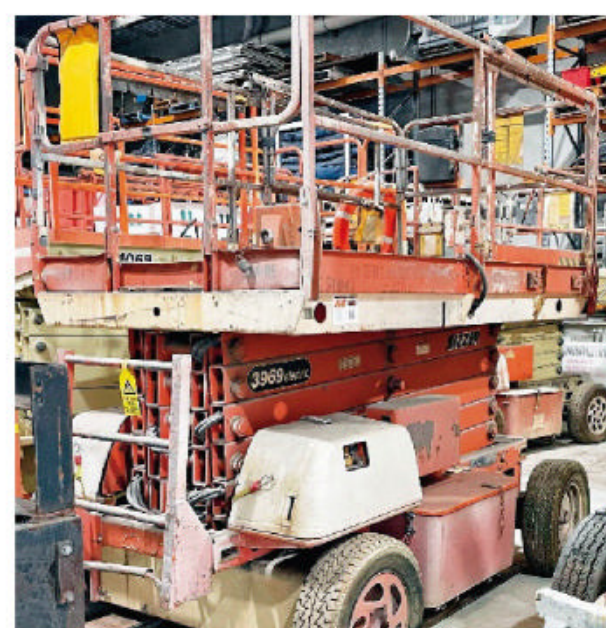
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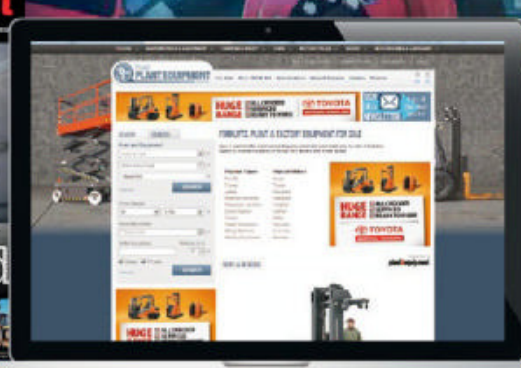
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Antonio Carraro Oceania Pty Ltd (NSW)	8
Bourgault Australia Pty Ltd (WA)	39
Brisbane Mini Excavators (QLD)	19
BYPY Transmissions (VIC)	28
CASE III AGRICULTURE	
Intersales Temora (NSW)	54
Rocky River Ag Services (SA)	56
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Cobram Farm Equipment (VIC)	65
Daken ASV (NSW)	10
Dieci Australia (NSW)	30, 100

Diesel Dirt & Turf (NSW)	23
Dixie Holdings Pty Ltd (QLD)	6
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Ennor Engineering(NSW)	41
F&E Australia Pacific Pty Ltd (VIC)	11
G&J East Kadina (SA)	61
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Grainrite (VIC)	60
Greg Allen Farm Machinery (VIC)	43
Jadan Enterprises (NSW)	49
JCB (NSW)	64
JNR Engineering (VIC)	47
John Berends Implements Pty Ltd (VIC)	31
John Shearer Pty Ltd (SA)	49
JSG Industrial Systems (NSW)	13
Loxton Engineering Works Pty Ltd (SA)	65
Massaro Motors (VIC)	41
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Now Buildings (VIC)	35
Private Advertising Coupon	97
Pivot Irrigation Australia Pty Ltd (SA)	60
Powerace Pty Ltd (WA)	12
Rata Industries Group Limited (NSW)	17
Rebel Equipment (NSW)	64
Robinsons of Bookham (NSW)	99
Rural Wrecking Co. (NSW)	33
Sammur Agricultural Machinery Pty Ltd (NSW)	37
UHI Machinery (NSW)	7
Veldonas (VIC)	52
Vin Rowe Farm Machinery (VIC)	9
Wrights Tractor Sales & Service (SA)	45

	
A One Lift Truck Services (NSW)	93

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Forklift Traders (NSW)	92
Formidable Forklifts Pty Ltd (VIC)	86
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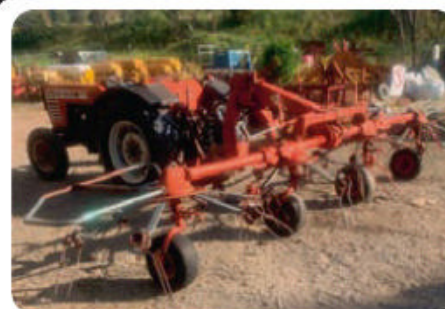
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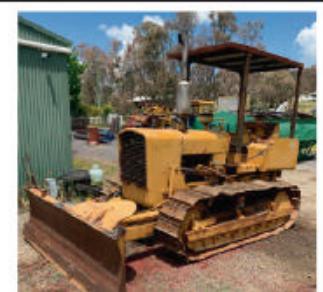
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AGRICULTURAL TELEHANDLERS BUILT TOUGH & RELIABLE

Designed to meet the needs of any farm job- big or small, the Dieci range of agricultural telehandlers are built tough and reliable.

From the compact Mini Agri to the heavy-duty Agri Max, these machines are tailored to suit the harsh Australian conditions and handle loads in even the tightest spaces.

We work every day to evolve our machines, resulting in a range of industry specific telehandlers for Poultry, Cotton, Piggery and Hay.

With a wide range of attachments available, there is a Dieci telehandler to perfectly suit your application, no matter what the requirement.



MINI AGRI

2.5 tonne
5.78 m



AGRI FARMER

3.0 tonne
6.35 - 8.70 m



AGRI PLUS

4.0 tonne
7.00 m



HAYMASTER

4.0 tonne
7.00 m



AGRI MAX

7.0 tonne
9.65 m

Contact Dieci on **1300 888 479** or visit www.dieciaustralia.com.au