

farms & farm machinery

Issue 409 ■ \$7.95 ■ On sale 24/3/2022



Review

Chevrolet
Silverado 1500



INSIDE

Made to measure

Dieci's telehandler range

Mountain high

Agria 9600i mower

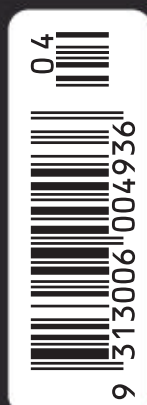
Sure ground

Mandam Grot
chisel plough

NEW

Tricks

Turning to offset discs for cultivation and weed control is becoming increasingly common, and the **Big Dog disc plough** is leading the pack >> **Page 14**



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farms & farm machinery

Issue 409



On the cover

- 14** Turning to offset discs for cultivation and weed control is becoming increasingly common, and the Big Dog disc plough is leading the pack

News

This issue's news starts with a look at new releases in spraying and loader wagons, with Ag Leader's new RightSpot system and Pöttinger upgrading its Europrofi Combiline wagons, while MacDon's new FD2 FlexDraper boasts a new knife drive and Claas has releases the next generation of its four- and dual-rotor swathers. We also have information on a couple of new vehicles, the Ford Ranger Raptor dual-cab and seven-seat Jeep Grand Cherokee L, news on a new facility for Lemken and the findings of commodity reports from Rabobank and ANZ.

- 6** Ag Leader's RightSpot spraying system
- 7** Pöttinger upgrades Combiline wagons
- 7** Second generation MacDon FlexDraper
- 8** Toro launches Aqua-Traxx Azul drip tape
- 8** Claas' next gen Liner dual rotor swathers
- 9** Electroweeding trial to take place in WA
- 10** Claas and Carraro Group intensify cooperation
- 11** Lemken invests in new facility for hoe tech
- 12** Ford's new Ranger Raptor dual-cab
- 13** Seven-seat Jeep Grand Cherokee L expected
- 48** ABARES heralds 'unprecedented' production
- 50** Supply chain issues could impact market
- Beef prices reach highest level in five years



- 52** Rabobank says wheat prices to increase
- 54** How the Ukraine war could impact wheat
- 56** Grain exporters should watch global stores
- Sheep meat demand forecast to remain strong
- 58** Positive outlook for Australian dairy
- Huge calf numbers to impact supply chain

Features

- 16** ifm efector's new Agri-Mate connector for ISOBUS linkage of tractors to implements
- 18** Goldacres' new Prairie Pro Series 2 trailing sprayer range
- 20** AgriPak and TrailPak compact spraying solutions offered by Croplands
- 22** Inlon's new Agria 9600i remote-controlled mower boasts upgraded features
- 24** Mandam's range of cultivators and chisel ploughs are fast, reliable and available here
- 26** Expert advice from Veldonas on choosing the correct pump control system
- 28** OwnerDriver's Truck of the Year winner is Gavin Sutton's 1989 Mack Super-Liner
- 30** Dieci's range of telehandlers suit a number of different farming operations
- 32** G&J East is making new changes to help it serve all points of the compass
- 34** El-Gra Engineering has made safety top priority for its drivers, slashers and mixers
- 36** Makin Traks is branching out into graders
- 38** Expert engine advice from Alldiesels



Review

- 42** The new Chevrolet Silverado 1500 truck range has more tech tricks up its sleeve than you might be expecting

Market news and opinion

- 40** WAFarmers CEO Trevor Whittington discusses how oil and wheat prices are impacted by war
- 53** Shipping delays hampering sales, says TMA's Gary Northover

Regular items

- 46** Calendar of upcoming events
- 80** Hot Deals: Hand-picked items for sale
- 97** Plant & Equipment
- 113** Private advertising - list your item for sale
- 114** Index

plant & equipment

- 98** JT Energy Systems acquires stake in Novum
- 98** A NSW-based steel and rubber company benefits from TMHA forklifts
- 99** Adding parts for John Deere construction equipment to the range is a change for Phil Hunt Parts, but the traditions of solid customer service are staying strong into the next generation

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News

SPRAYING

Individual nozzle control for precise application

Spot check

Precision agriculture specialist Ag Leader has added to its growing range of integrated application solutions with the release of the RightSpot spraying system Down Under.

RightSpot enables the user to control up to 144 nozzles individually for more consistent and accurate coverage over a range of operating speeds.

The system can be retrofitted to a wide range of self-propelled and trailed sprayers.

"Spraying is extremely time-sensitive and time-intensive," Ag Leader Asia Pacific sales manager Doug Amos says.

"Producers often spend more time spraying than any other job associated with broadacre or row cropping.

"With increasing input costs and tightening environmental regulations, producers need to be looking at ways of increasing the efficacy, accuracy and productivity of their spraying operations.

"Adding nozzle-by-nozzle control to their existing sprayer can deliver immediate agronomic and financial benefits by minimising under- or over-application and the potential for spray drift."

RightSpot uses pulse width modulation technology to maintain a consistent, user-defined boom pressure and application rate, regardless of operating speed.

"A traditional sprayer regulates the application rate by increasing or decreasing boom pressure as the ground speed of the sprayer changes," Amos says.

"This means any reduction in speed, such as when travelling over rough conditions or around obstacles, will produce a larger droplet size, resulting in reduced coverage and efficacy.



"Conversely, any increase in speed will result in a smaller droplet size increasing the risk of chemical drift onto adjacent crops.

"With RightSpot, flow rate and pressure are controlled independently.

"This means the operator can speed up or slow down without sacrificing the droplet size or coverage.

"RightSpot shuts off each nozzle automatically, allowing the operator to follow the most efficient path of travel rather than tracing around obstacles.

"The automatic turn compensation adjusts the application rate on the inner and outer portions of the boom to ensure a consistent rate is applied right across the boom during turning."

Amos says RightSpot is 'next generation' spraying technology that can be retrofitted to any make or size of sprayer.

"20 years ago, farmers could only make changes to the operation of the entire boom," he says.

"10 years ago, they could adjust the operation of each section.

"RightSpot allows them to control each individual nozzle!

RightSpot independently controls flow rate and pressure

"We believe this technology will appeal to large-scale farmers or contractors who are looking to improve the efficiency of their existing spray unit without having to purchase a new sprayer.

"RightSpot is the cost-effective way to upgrade a late-model self-propelled or trailed sprayer into a state-of-the-art precision sprayer that would otherwise cost hundreds of thousands of dollars new."

RightSpot is controlled using Ag Leader's universal InCommand 1200 terminal, which also controls the company's steering/guidance systems, precision planting and spreading solutions and decision support systems.

"Like all Ag Leader products, RightSpot is designed to make the grower's job easier with a simple, easy-to use, year-round interface that enables them to achieve precise application control while increasing productivity," Amos says. **flm**

RightSpot will be available via the Ag Leader dealer network throughout Australia

LOADER WAGONS

Tried and tested

Europrofi Combiline with optimised front panel

Pöttinger has upgraded its Europrofi Combiline rotor loader wagons with a new front panel to optimise convenience and flexibility.

The company has redesigned the front panel on the wagons, allowing its 2,000mm-wide forage compression flap to be better adjusted to the crop it is loading.

The spring-loaded flap controls the automatic loading system, switching the scraper floor on and off with a time delay if needed, ensuring accurate filling of the loading chamber, right up to the edges.

Two basic positions can be set manually on the standard versions, though infinitely variable hydraulic adjustment of the inclination is also available as an option.

The option allows the flap to be fully retracted, so that the top section of the loading chamber can be opened when the loader wagon is deployed in harvest transport mode.

Roof ropes, which are available as an option, can easily be removed.

The second option, best suited for maximum conservation of the forage, uses an optional sensor to monitor the loading torque on the rotor. This is particularly important with wet, heavy crops, which make it more difficult for the material package to reach the forage compression flap.

In this situation, the automatic loading system and the scraper floor are controlled based on the torque of the loading rotor. This configuration enables the wagon to be filled while maintaining the best possible forage structure, even in the most difficult conditions.

The operator can choose between using the compression flap or the rotor torque sensor from the driver's cab, selecting appropriate loading strategy for each particular task.

The Combiline wagons boast the tried and tested Powercut chopping system, with a suite of 35 knives that ensure all models chop to a theoretical length of 39mm.

Europrofi 5010 L Combiline



The optimised front panel for even more cost effectiveness

Available with or without unloading beaters, the units also have the Easymove swing-out knife bank, six-row floating pick-up and a supporting tracking roller combined with new technology to deliver the best quality forage. **flm**



DRAPER

FD2 Series FlexDraper

Next generation

MacDon's FD2 FlexDraper boasts a new knife drive and a capacity boost

The second generation of MacDon's FlexDraper is set to arrive in Australia just in time for harvest season, following its global launch in August last year.

The MacDon FD2 FlexDraper builds on the features of its original FlexDraper model, offering up to 20 per cent more capacity of smooth, heads-first feeding than the previous model.

This comes from a deeper deck, with 50-inch (127cm) deep drapers on all FD2 models that can lay down high-volume crops cleanly.

Now available in configurations of 30 to 50 feet (9-15m), the FD2 also uses MacDon's FeedMax Crop Feeding System which, it says, features combine-tailored speed control and customisable auger flighting to fit the feeder house of any combine harvester.

The unit also boasts a new high-speed cutting system, which it says offers clean cutting at speeds 30 per cent faster than the previous model.

Users can also adjust the position of the reel, pushing it

back further on the header to help prevent crop shatter on the ground – a feature designed with crops like canola in mind.

MacDon's ClearCut high speed cutting system has an improved knife drive with additional power, a larger output shaft and a new knife section arrangement, offering 25 per cent more cutting surface, while its redesigned hardware makes in-field knife replacement easier.

The draper offers two types of knife guards – the multi-purpose Pointed Knife Guards or the PlugFree Knife Guards that are designed to get as close to the ground as possible while resisting plugging, even in difficult conditions.

MacDon says the draper's Active Float system supports up to 97 per cent of the header's weight, allowing the draper to float over various bumps in the ground and letting it cut close without hitting the dirt.

Launched last year, the drapers are available to order now from MacDon dealers across the country. **fm**

IRRIGATION

Free flow

Toro announces launch of Aqua-Traxx Azul drip tape

The Aqua-Traxx Azul drip tape is more effective in resisting clogging due to its innovative flow path design in the emitter, the company says.

Toro says the key to reducing drip tape clogging is to protect the flow path labyrinth from debris.

With that in mind, the Azul drip tape has a greater filtration area, with patent-pending multi-stage filters that protect the emitter from different sizes of debris, meaning the tape only has a 120 mesh filtration requirement.

Optimised large flow passages in the emitters create more turbulence within the system, ensuring a consistent and uniform distribution of water and nutrients to maximise clog resistance and performance.

Bruno Capogreco, from Capogreco Farms in WA, is one of the first people in Australia to use Toro's new Aqua-Traxx Azul drip tape and feedback has been positive.

Capogreco Farms has been using Toro Aqua-Traxx drip tape for over a decade and has installed more than 5,000 reels over the years. The 200-hectare family farm is located in Hamel, an hour south of Perth. The Capogreco's grow rockmelon, honeydew, watermelon and orange candy melons for the Australian market and export.



Toro's new Aqua-Traxx Azul tape

Capogreco says that maintenance and flushing of the dripline is very easy.

"We use flushing valves at every end and flush once per month," he explains.

"Uniformity of Azul is a lot better and we have seen a five per cent improvement in yield."

The new Aqua-Traxx Azul is available with 0.49, 0.76 and 1.02 litres per hour emitter flow rates, and with a wider range of wall thicknesses to meet various crop requirements. **fm**



The four models cover working widths of 9.3m to 15m

SWATHERS

Raking it in

Claas releases next generation of four-rotor Liner swathers

Available in four models, with working widths from 9.3m to 15m, they incorporate numerous features, including telescopic arms, excellent ground contouring, ease of operation and a low transport height.

Claas Harvest Centre product manager – Greenline, Blair McAlwee, says the telescopic arms extend and retract via a patented three-stage system for rapid adjustment of the working width.

"Depending on the model, the width of each swath can be adjusted from 1.3m to 2.5m and the overall working width from 3.4m to 4.9m," he says.

"In the Trend configuration, swath width is adjusted manually using a simple spring-loaded lever.

"Likewise, raking height can be quickly adjusted using the crank handle on each rotor.

"In the Business configuration, working width, swath width and rotor lift are all hydraulically controlled using the ISOBUS-compatible terminal inside the cab."

Each model is equipped with four equal-sized rotors that operate at the same speed.

"This enables optimal interplay between the wide-raking front rotors and the rear rotors, which handle a larger volume of forage, to ensure maximum throughput, uniform swathing and minimal contamination," McAlwee says.

The mechanically-driven rotors have 50 per cent more raking force than hydraulic drives, says Claas, and the shaft speed in the two gearboxes on the main frame has been reduced from 540 to 350 rpm.

"The upgraded floating cardan suspension system enables the rotors to move in three dimensions as they are pulled across the field," McAlwee says.

"Only 20 per cent of the weight is applied to the front rotor wheels, enabling optimum ground-contour following by the rotors.

"The front and rear rotors can be raised and lowered in succession by sequential control.

"The rear rotor wheels touch down first, which prevents the tines from digging in and damaging the grass sward." **fm**

With a 3m transport width, the rear light arms can be folded inwards to negotiate narrow entrances





SWATHERS

It takes two

Claas unveils the next generation of Liner dual rotor swathers

Claas' latest generation of dual-rotor central Liner swathers offer excellent ground-contour following for optimum raking performance with minimal forage contamination.

"The Grass Care rotor guidance system ensures that the rotors are actively suspended during operation," Claas Harvest Centre product manager - Greenline, Blair McAlwee says.

"When the rotor arms are lowered, the rear rotor wheels touch down first, producing a 'jet-effect' that prevents the tines from digging in and damaging the grass sward."

The two Business models also incorporate Active Float rotor suspension and load-sensing hydraulics.

"This functions in a similar way to the suspension of the same name in the Disco Contour disc mowers," Blair says.

"The ground pressure of the rotor can be adapted precisely to the forage quantity and ground conditions by adjusting the suspension pressure.

"This ensures faster operating speeds and reduces soil contamination.

◀ There are seven new models in the Liner dual rotor range

"It can be easy adjusted directly on the machine, with a gauge on the main frame indicating the pressure in the hydraulic circuits."

Each tine arm is fitted with four 9.5mm thick dual tines, which are secured via a bolt to prevent the tine from flying off in the event of a collision.

Each pair of tines is offset by 10 degrees to create a 10mm long trailing end to help lift the crop from the ground.

This design ensures gentle and effective raking performance and optimal swath formation.

The two rotors are mechanically driven via the power take-off, increasing their raking force by up to 50 per cent compared with hydraulic drives.

All rotors are fitted with a four-wheel chassis as standard for optimal ground-contour following.

Six-wheel chassis are optionally available for the Liner 2900 to 2700 and are fitted as standard to the Liner 3100.

"The steering angle can be mechanically adjusted from a soft to a sharp response and for turning," McAlwee says.

"The angled position of the wheel mounts ensures that only light steering forces are needed and also makes for perfectly smooth running.

"Speeds of up to 40 km/h can be achieved on road."

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WEED CONTROL

Bright spark

Australia-first electroweeding trial to explore innovative control measures

A non-chemical weeding device that uses electricity to kill plants will be put through its paces in Western Australia to determine whether it is the future of sustainable weed control for grain growers.

The Department of Primary Industries and Regional Development, WA (DPIRD) will join with CNH Industrial to test the technology’s suitability to control weeds in Australian dryland and irrigated agriculture.

It will also examine which weeds are easiest to control with electricity and the technology’s potential uses in Australian agriculture to generate cost savings and influence crop yields.

The project also has support from the Grains Research and Development Corporation, Wine Australia, WA consultants AHA Viticulture and the Cotton Research and Development Corporation.

The Swiss-made Zasso Electroherb machine, based on Brazilian technology, uses mechanical power to produce a high voltage current, which is applied directly to plants via a series of electrodes mounted behind or in front of the tractor.

The electroweeding process works by passing electricity through a plant by touching it with an electrical applicator, which causes the cell walls to be destroyed – killing the plant or suppressing growth.

The technology has not been tested under Australian field conditions before, although it is used in Europe on a small scale for horticulture and viticulture properties and for roadside weed control.

DPIRD research scientist Miranda Slaven says that electric weed control could be part of an integrated solution to reduce dependence on chemical inputs and create more sustainable farming systems.

“Finding alternative weed control strategies to chemical measures is important in Australia, due to increasing rates of herbicide resistance and increasingly discerning market demands,” she says.

“This new device is at the frontier of agricultural technology, and it is valuable to test it under Australian growing conditions to examine its potential application as a non-chemical methodology in our agronomic systems.”

◀ This could be a way to treat herbicide-resistant weeds such as fleabane



⬆
The Zasso Electroherb weed electrocution machine

A preliminary plot trial indicated volunteer crops and grass weeds could be the hardest to control, due to the plants’ high surface area and extensive branching of roots and shoots.

The device will initially be tested on its ability to control weeds on viticulture and horticulture properties and, later, along roadsides and fence-lines, as well as its use for fallow weed control at the department’s research facilities in the Grainbelt.

The research will target herbicide resistant weeds, like annual ryegrass and wild radish, and problematic agricultural weeds, such as feathertop Rhodes grass and fleabane, as well as perennial weeds, including kikuyu and wireweed.

The machine will begin the trial in coming months and the results will be monitored over two years. **ffm**

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Representatives from Claas and Carraro met to sign the agreement at Carraro Group headquarters in Campodarsego, Italy

PARTNERSHIP

Stronger together

Claas and Carraro Group intensify cooperation on tractors, axles and employee skills

Claas and Carraro Group are further expanding their decades-long cooperation, following the signing of a new strategic agreement.

In addition to the development and production of special and compact tractors, and the supply of axles and gears for tractors, the cooperation will also include the mutual knowledge transfer and exchange of skills.

“A clear short- to medium-term goal of our commitment is to increase sales and market share

in the segments of special and compact tractors,” Claas CEO Thomas Böck explains.

“To achieve our goals, we are investing together in new developments, but also in competences and skills of our employees and know-how transfers.”

Carraro Group CEO Andrea Conchetto adds: “We are going beyond a typical contract for the supply of vehicles, components and services, because we intend to pool our mutual skills and ex-

ploit them on a common basis. Sharing best practices, comparing cultures [and] increasing knowledge of the end user user, thanks to the widespread presence in the market of Claas GmbH, will allow our group to grow further and consistently.”

Employees from Carraro Group and Claas will work at each other’s sites for short periods. In addition to production, this will also include administrative functions in the small tractor business unit. **fm**

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◀ Nicola Lemken and Anthony van der Ley

HOEING

Building up

Lemken invests in new facility for hoeing technology

Lemken has announced that it will invest in a new plant to build Steketee hoeing machinery. It will be built in Dinteloord, The Netherlands, and is scheduled to open its doors at the end of 2023. "The world around us is changing fast. That's why everybody involved in the production chain needs to work together to ensure sustainability in food production," Lemken managing director Anthony van der Ley says. "Primary agriculture in particular plays a pioneer-

ing role here. New technologies open up a wide range of possibilities. For example, by switching to smart mechanical weed control we can apply crop care products more precisely and gradually reduce their use. That's why we have been going full steam ahead with the development, production and sales of Steketee machines since 2018." Van der Ley adds that the company's ambitions go beyond a simple expansion and modernisation: "We want to invest significantly more in product

development to build on Steketee's position as an innovator, for example with the use of artificial intelligence. "We place great value not only on our company's healthy growth, but also on good working conditions. "We are very pleased that we have found a location nearby, so that all our employees can transfer to their new workplace without difficulty. The attractive environment is also important for further recruiting requirements. In addition, we will combine the creative design of the new building with the opportunity to establish ourselves as an experienced and innovative partner for other companies, for universities and colleges, and to offer a springboard for students or start-ups." Steketee managing director Iljan Schouten adds: "Just three years after our takeover of Steketee, we are now taking a big step forward. "I'm very proud that Lemken trusts the Steketee brand and our team of young talents and experienced employees. We place great value on new technologies in both our factory and our end products. We want to create not only a state-of-the-art production facility, but also a development centre and an AgroForum as a source of inspiration and knowledge for our national and international customers." **fm**

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UTES

Eagle has landed

Ford's new Ranger Raptor dual-cab features 'effortless acceleration' on difficult surfaces and suspension upgrades for a smooth landing

Ford has unveiled its next generation Ranger Raptor dual-cab ute, offering a permanent four-wheel drive system and seven selectable drive modes. Equipped with a high performance three-litre V6 twin turbo EcoBoost petrol engine, the ute delivers up to 292kW (392 horsepower) and 583Nm of torque. "It's significantly faster, looks incredible, is packed with new features, and is the strongest Built Ford Tough Ranger we've ever made," Ford Performance chief program engineer Dave Burn says. Along with its improved engine, the vehicle comes with a 10-speed automatic transmission, with each gear programmed to its own boost profile. Ford says this helps the engine deliver "effortless acceleration" on gravel, dirt, mud or sand, while an electronically controlled active valve exhaust system lets the driver choose whether to prioritise

low volume over performance or get aggressive in an off-road-only tone. The new Ranger Raptor has a unique chassis and a redesigned suspension system, with lightweight upper and lower control arms, long-travel front and rear suspension and refined Watt's link-equipped coil-spring rear suspension designed to deliver more control across rough terrain. Burn says the suspension upgrades make good use of the Fox Live Valve internal bypass shock absorbers, which it says are filled with a Teflon-infused oil that help reduce friction by about 50 per cent, compared to the previous Raptor model. "The suspension adapts in real time to enable exceptional on-road body control while absorbing corrugations and bigger ruts off-road, ensuring maximum control and performance," he says.

◀ Its 10-speed automatic transmission helps the engine deliver 'effortless acceleration' on gravel, dirt, mud or sand

The Ranger Raptor also comes with some serious underbody protection, with a 2.3mm steel front bash plate that Ford says is almost twice the size of the standard unit. Twin rated tow hooks at the front and rear provide flexible recovery options while driving off-road, with the added benefit of always being able to access one of the tow hooks (if the other is buried), as well as being able to use balance straps during snatch recoveries in deep sand or thick mud. The Raptor's Matrix LED headlamps with LED daytime running lamps offer dynamic levelling, the capacity to adjust in intensity depending on the speed the vehicle is travelling. LED taillamps are also on the back, along with a rear bumper that features an integrated step pad and towbar. The flared fenders accommodate a choice of two muscular 17-inch wheel designs, the optional one with beadlock capability, each wrapped in BF Goodrich All-Terrain KO2 tyres. Inside the cabin is a high resolution 12.4-inch (31.5cm) digital cluster and 12-inch (30.5cm) centre touchscreen that offers both Apple and Android 6 wireless smartphone connectivity. Compatible smartphones can be wirelessly charged via a pad on the console. "We knew that customers would expect improved performance with the Next-Gen Ranger Raptor, but I'm not sure they're really expecting the enormous leap we've made. It's a seriously fun car to drive and I think the raw performance is going to blow them away," Burn says. **fm**



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4x4

Multiple choice

New seven-seat Jeep Grand Cherokee L will arrive in Australia later this year

For those who want to go off-road in style, and have the cash to splash to achieve it, the new seven-seat Jeep Grand Cherokee L is set to debut in Australia in mid-2022.

Prices start at \$82,250 (plus on-road and dealer-delivery costs) for the Night Eagle model, and the Grand Cherokee L Limited rises to \$87,950 (plus on-road and dealer-delivery costs). This additionally includes the Selec-Terrain traction management system and a 4x4 active single-speed transfer case.

Both models use the Quadra-Trac I 4x4 system – a single-speed active transfer case that uses input from multiple sensors in the vehicle to pre-emptively adjust torque distribution and make corrections if tyre slip occurs.

The top-end Grand Cherokee L Summit Reserve, available from \$115,450 (plus on-road and dealer-delivery costs), upgrades to a Quadra-Drive II Active 4x4 System with Selec-Terrain and Quadra Lift Air Suspension plus a 4x4 two-speed active transfer case with low-range gear.

All three systems are equipped with an active

transfer case to improve traction by moving torque to work with the wheel with the most traction when wheel slippage is detected.

Quadra-Drive II, with a two-speed active transfer case and rear eLSD, delivers industry-leading tractive capability, says Jeep.

The Quadra-Lift air suspension, with electronic adaptive damping, delivers class-leading ground clearance and water fording, says Jeep. The system automatically adjusts the shock tuning to changing road conditions for enhanced comfort, stability and control.

This system features five height settings that can either be set to automatic or be manually controlled and cover normal ride, off-road, park and the sporty Aero mode. With this suspension, the Grand Cherokee L features a 30.1-degree approach angle, a 23.6-degree departure angle and 22.6-degree breakover angle.

And the driving options don't stop there, with the Selec-Terrain traction management system letting customers choose different on- and off-road settings

◀ A wide variety of customisation is available to tweak the ride to the terrain



^ The flagship Summit Reserve comes with quilted Palermo leather seats

to modify performance, via five terrain modes – auto, sport, rock, snow and mud/sand.

Hill-descent control is standard on the higher end models and works both in forward and reverse gear.

The 3.6-litre Pentastar V6 engine produces 210kW and 344Nm of torque and has up to 2,395 litres of cargo space, depending on seat configuration, and a 2,813kg towing capacity.

Jeep Australia managing director Kevin Flynn says the Grand Cherokee L range is the most refined and technologically advanced model released to date.

“The added versatility of its seven-seat layout goes hand-in-hand with an entirely new architecture, myriad safety and assistance systems, exceptional material quality and the latest advancements in our famed 4x4 capability, making the Grand Cherokee L a truly premium offering in every sense of the word,” he says. **rfm**



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COVER STORY

New tricks

Turning to offset discs for cultivation and weed control is becoming increasingly common, and the Big Dog disc plough is leading the pack

The rising cost of chemicals is leading more farmers to return to offset discs rather than speed tillers for cultivation and weed control, Big Dog Disc's Andrew Nolan says.

He says the increasing amount of money spent on chemicals by broadacre farmers to tackle weeds has meant farmers are going back to an "old school" solution - and the Big Dog is providing the means to do so.

"Three or four years ago, you couldn't sell a set of offset discs but now, with the prices of Roundup and chemicals going through the roof, farmers have been going back to old-school farming and they're going back to offsets for weed control and breaking up virgin country," he says.

"There are also a lot of weeds that have built up a tolerance and resistance to chemicals, and people are finding chemicals are costing anything up to \$100 per hectare before you get in the tractor, so people think it's more beneficial and worthwhile to go back to offset farming.

"It also means they can own the machine outright pretty quickly compared to just throwing money away, spending it on chemicals.

"If you are paying \$100 a hectare on chemicals and you have 5,000 hectares, it's going to cost you half a million dollars just to spray it.

"If you have to come back and do it again, it's going to cost double."

Beyond just financial benefits, Nolan also says customers are finding the cultivation methods provided by offset discs offer superior weed control and soil health compared to speed tillage.

"We find the main resurgence for offset disc is weed control with the amount of rain we've had across the various states in the past two years," he says.

"People are steering away from speed tillers because they don't go deep enough and they're also turning their soil into a sieve, so when it rains you are losing the moisture straight away.

"What offsets do is keep the ground very cloggy and chunky and they don't lose the moisture.

"We're finding a lot of the clients that we're selling to are people who have been using speed tillers for several years, but the speed tillers don't seem to be doing the job and are just scratching the top of the surface.

"People want to go deeper to get weed control over fleabane, wireweed, milk thistles and various other weeds, and they need to go down a good four, five or six inches, and this is one of the main reasons why people are going back to offsets.

"Our feedback is that people who are fallowing paddocks are getting a better yield to those

crops through fallow and they're improving the microbisms in their soil, which is a big topic at the moment with soil preservation."

Outlining the issue is one thing, but what is the solution for farmers seeking an alternative?

Nolan believes the Big Dog disc plough, which is available in a wide variety of sizes from 4m to 12m, is that solution.

The Big Dog is a heavy-duty machine designed to handle rugged conditions.

Built to last, the Big Dogs all have 10mm thick frames, 200mm by 150mm box sections and 8mm thick plates on the front and back.

Other features of the machines including levellers, a travel hitch, overcentre hydraulics and adjustable gangs.

A design adjustment has also meant a change in bearing type, to ensure increased ease of use.

"We used to use an oil-barbed bearing but they were very problematic with people not knowing how to fill the correct amount of oil back in to them," he says.

"We would find the oil-barbed bearings would start seeping, so we've gone back to a greaseable bearing, which gives us minimal headaches, and we can either use a Timken or SKF bearing - it's up to the individual.



B

A

The Big Dog disc plough is available in a variety of sizes from 4-12m

B

Offset discs have become more popular for superior weed control and soil health

C

The Big Dog has been designed to handle challenging conditions

D

Flotation tyres give good stability on the road

E

Offset discs can provide a deeper dig to help control weeds such as milk thistle

Our machines are extremely heavy-duty and very well-priced



C



D

"We also use a 400mm and 500mm flotation tyre, which gives the machine very good stability on the road moving from one paddock to another farm. The flotation tyres also work well on any undulating country.

"One of the big attractions with the smaller machines, which is very popular with the 4m, 4.5m, 5.5m and 6.5m machines, is they fold up to a 2.5m to 3.4m folding width.

"This allows people to move without an escort and through 10ft [3m] and 12ft [3.7m] gateways, which is a big plus for a lot of farmers."

Nolan says the Big Dog has been a popular product across the country, being represented particularly in New South Wales, Queensland and South Australia, but they can easily be sent to farmers anywhere in Australia. The proof of their value, he says, has been when people have seen a Big Dog operating in a nearby farm and its benefits are before their eyes.

"We have the ability to sell one machine in a district and we'll pick up another dozen sales because people are that impressed with the product," he says.

"Our machines are extremely heavy-duty and very well-priced." *ffm*

For more information, visit: www.bigdogdisc.com.au or call 0497 874 936.



E



CONNECTIVITY

Vital link

The Agri-Mate connector, developed by ifm efector, joins ISOBUS-compatible products together without the delays of automation development time

ISOBUS-compatible tractors and implements can now be linked without costly and time-consuming manufacturer development, thanks to ifm efector's latest product.

The German technology company has just launched the Agri-Mate, which is now available for the Australian market and promises to make implement automation easier, particularly for small to medium-sized original equipment manufacturers (OEMs).

"Traditionally, you have a tractor and an implement such as a sprayer, and if you want to add any automation on an implement that goes on the back of a tractor - you usually have to communicate all the information from that implement to the display in the tractor, which is usually called universal terminal," ifm product sales manager for mobile control systems Adi Kunder says.

"That universal terminal follows an ISOBUS standard and traditionally it takes a lot of development time for implement manufacturers

to get the information from the implement on to the tractor display. What ifm has done is take that development time away.

"With this ISOBUS Agri-Mate, it sits in between the tractor and the implement control system, so the implement control system will have all the ifm hardware and the ISOBUS Agri-Mate will take all the information from the implement and convert that into an ISOBUS standard and display it on the universal terminal in the tractor.

"It's a plug and play solution with ISOBUS terminals and is designed for mobile equipment. It is very rugged and can handle all the shocks and vibration that come with these devices."

The Agri-Mate joins ifm efector's stable of technology solutions for agricultural machinery, alongside other recent additions such as the O3M Smart Sensor, which provides a precision guidance system for tractors.

Described by Kunder as a "gateway", the Agri-Mate works with ifm's other controllers and sensors and is ultimately aimed at saving

ifm efector's new ISOBUS Agri-Mate

automation development times for small to medium-sized OEMs, who often create several new implements every year and struggle to have the necessary resources to devote to automating these.

"The customer does not need to know at all about ISOBUS protocol," he says.

"All they need to know is what they know around Codesys, which is a programming platform used in the ifm control system.

"We can train the customers in the Codesys control platform and show them how to implement the ISOBUS function block that ifm has implemented in our controllers.

"The ISOBUS Agri-Mate will do the rest and push all the information to the tractor."

Thanks to optimised data processing, only the values to be visualised on the connected display are transmitted, reducing the load on the data bus significantly.

Kunder says the biggest benefit for the end user - the farmer - will be in the ability to have every piece of required information in the one display, rather than having multiple displays for multiple implements.

The Agri-Mate's market launch comes after multiple years of planning from ifm's German base and is described as Kunder as a "massive project" for the company.

The Agri-Mate also comes with ifm's libraries, hardware and predefined configuration already loaded into the device.

It works with any ISOBUS-compatible tractor and implement, even if they are from different manufacturers, and includes all software libraries as part of the cost, with no additional licence costs involved. **ifm**

ISOBUS Agri-Mate easily links tractors to their implements



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NK

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The NK features side-mounted selector valves plus a chemical induction probe to make chemical handling easier and safer. A rinse tank is integrated with the chassis, and a higher capacity 170 l/min HARDI 363 diaphragm pump is fitted as standard.

**BOOM WIDTH:
5 - 12M**

**TANK CAPACITY:
600 / 800 / 10 000 L**



MASTER

The popular MASTER plus is completely designed around its key functions. An integrated Quick Hitch, well-arranged MANIFOLD fluid system and versatile boom range are just some of the features that help make spraying more efficient and handling easy.

MASTER plus also offers options including high capacity TurboFiller induction hopper; versatile HC 5500 or HC 8600 controllers; and 1400 litre front tank for added capacity and improved balance on the tractor.

**BOOM WIDTH:
12 - 21 M**

**TANK CAPACITY:
1000/ 1200 /1500 /1800 L**



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TRAILING SPRAYER

Best of both worlds

Set to hit paddocks later this year, Goldacres says its new Prairie Pro Series 2 trailing sprayer takes existing technologies in a new direction

Goldacres has raised the bar in the trailing sprayer market with the all-new Prairie Pro Series 2.

The new series is a complete redesign of the manufacturer's flagship trailing model, which has been on the market since 2015.

Goldacres sales manager Stephen Richards says the redesign was prompted by what customers had requested, adding that Goldacres was able to quickly make changes in line with customer demand because its sprayers are designed and manufactured in Australia.

"With farming practices changing in a direction that requires higher accuracy, less wastage and getting more done, a rethink of the range was required," he says.

"The philosophy behind the new model was to create a trailing sprayer that shared the same filling and application technology from the recently released Crop Cruiser G6 Series 2.

"It's easier to use, has electric controls for all functions with full diagnostics info if something goes wrong, and offers all the functions and smarts of the self-propelled sprayer in a trailer."

The Prairie Pro Series 2 is a vastly different machine to both what Goldacres has previously offered and the alternative sprayers available.

Aimed at producers who demand the very best in terms of build quality, features and technology, it is designed for maximum efficiency from the season's first fill to the last application, with all chemicals on target and minimum waste.

Careful consideration has been given to determining what operators value most in a sprayer, with many features built into the model as standard equipment.

The Prairie Pro Series 2 features a new chassis and adjustable height pull to adapt to different tractor draw-bars. The pull is a much narrower design, with the pump relocated to the right-hand side chassis and the larger rinse tank now moved to the chassis.

A new higher platform and boom rest design radically cleans up the appearance of the machine while making access to the tank easier.

Arguably the biggest advancement of the new model is the adaption of Goldacres' in-house developed G-Hub sprayer control system.

Comprising a full colour 5-inch (12cm) screen and keypad at the fill station and an optional 12-inch (30cm) colour touchscreen inside the tractor cabin, the system allows all functions to be quickly operated.

One of the key features to the G-Hub is the ability to simply enter a tank fill volume and the system does the rest, shutting off the pump and fill valves once the fill volume is met.

All sprayer plumbing has been totally revised to allow for higher fill and application rates.

The sprayer is fitted with an ISOBUS controller and boom plumbing in either 10 or 16 sections with the Goldacres rapid fire nozzle switching and rapid flow boom recirculation as standard.

Boom time

The fully riveted RivX boom is now fitted to the Prairie Pro Series 2 in sizes between 24m and 36m, while the 48m version is the tri-folding TriTech V series boom.

Goldacres' RivX boom has proven itself on the G6 Series 2 Crop Cruiser and is instantly recognisable with a structural riveted outer boom wing, bright

The Prairie Pro 1048

yellow boom tips and a hydraulic fold mechanism that lifts the standard for spray boom construction and performance.

The outer wings are aluminium and feature no welding while the inner and outer wings are fully symmetrical, meaning left and right are interchangeable.

The fold system uses hydraulics and links but, unlike most other booms, the hydraulic fold cylinder is retracted when the boom is fully open.

In addition to the hydraulic folding, the mechanism includes a hydraulic breakaway system in the event of a collision with an object. Bi-fold is now a standard feature of this design.

Booms also have an auto fold system, which is controlled through the G-Hub system.

The 48m TriTech V boom is built with productivity and efficiency in mind.

With a tri-folding design, it is a user-friendly boom that can operate at 48m, 36m and 20m spray widths.

This design has also seen many updates with revisions to the boom hydraulics and construction to increase strength and usability.

The first of Goldacres' range to hit paddocks is the capacity-topping 10,000L version with a choice of the 36m RivX boom or the tri-folding 48m TriTech V series boom.

Production of the Prairie Pro Series 2 is set to commence mid-year with new models scheduled to make an appearance at all upcoming field days.

For more information, visit the Goldacres website: www.goldacres.com.au



◀ The Prairie Pro 6536 has a 6,500L capacity and 36m boom



Built just down the road.

*Booms sizes vary depending on model of sprayer

Next generation of premium trailed sprayers.

Prairie Pro Series 2.

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- ▶ 24-36m RivX or 48m TriTech V booms*
- ▶ G-Hub external filling & cleaning system
- ▶ Fast Fill 3" clean & dirty fill points
- ▶ IsoBus 10-16 section boom control
- ▶ RapidFire / RapidFlow application technology



GOLDACRES



prairie pro



SPRAYERS

Beauty compacts

The AgriPak and TrailPak compact spraying solutions offered by Croplands pack a lot of power into a smaller package

Croplands has been building sprayers for 50 years and offers units from the largest self-propelled sprayers for broadacre farming to smaller capacity sprayers for small acreages and home gardeners.

With a focus on sourcing and supplying the best spraying solutions, Croplands has grown to become one of the most popular sprayer brands on the market.

Within Croplands' selection is the Compact range, which includes the AgriPak linkage sprayers and the tow-behind TrailPak.

The manufacturer's Compact product lead Jeremy Deck says the range has been designed with customer needs at the forefront.

"Croplands' range of Compact sprayers, accessories and components are designed to provide our customers with the confidence to take on weed after weed," he says.

"We pride ourselves on delivering practical solutions that help our customers save time, reduce costs and maximise productivity.

"Our sprayers are efficient, reliable and built to last."

AgriPak linkage sprayers

Ideal for smaller properties, the AgriPak linkage sprayers use the three-point linkage of a tractor with the weight of the spray tank kept close to the rear wheels to optimise their load-carrying potential.

Croplands' hard-wearing and long-lasting UV-stabilised tanks range in capacity from 300L to

1,600L, offering spraying solutions for properties of all sizes.

Featuring Annovi Reverberi pumps and fitted with Agrotop AirMix air-induction nozzles for optimal drift control and surface coverage, Croplands' AgriPak linkage sprayers are engineered to deliver safe and efficient spray application.

The AgriPak sprayers can be customised with different hose reels, boom widths and optional extras like GPS systems and hydraulic boom lifts.

One of the models within the range is the mid-size AgriPak 600, which became South Australian farmer Bill Wenske's new sprayer last year.

"This sprayer is simplicity at its finest and is locally-made with great support from our local Croplands dealer," he says.

TrailPak

For those looking for a spraying solution that can be towed behind an ATV, UTV or small tractor, Croplands recommends its best-selling TrailPak 300L trailed sprayer range.

According to Deck, this model is a versatile option for a range of smaller properties and requirements.

"The TrailPak 300 is a great sprayer for block-holders and smaller farms," he says.

"Whether you are using it for spot spraying, watering or even in a small horticultural setting, the TrailPak can be used with or without a boom to deliver the results you need."



A

The Croplands Trailpak 300 is designed to be towed behind a small tractor, ATV or UTV

B

Brodie Bridgman uses a 6m boom and hose reel

C

Bill Wenske went for the AgriPak 600

TrailPak 300 models include the best-selling 12-volt range, which enables a wide range of use, from spot spraying to boom spraying application.

One Croplands customer who benefitted from the TrailPak 300's versatility is South Australian farmer Brodie Bridgman, who ordered his with a six-metre boom and hose reel.

"The TrailPak is an easy all-round machine," he says.

"It is very versatile in smaller paddocks and perfect for the hard-to-reach spots."

Other features of the TrailPak 300 include a translucent UV-stabilised tank with large sump and graduated markings and a large, easy-access lid with filling strainer.

It also offers an easy-access suction filter and regulator for pressure and flow adjustment, a rugged one-piece chassis, flotation tyres on a sturdy axle and a safety hitch for safe towing. **fm**

For more information on Croplands range of Compact sprayers, visit croplands.com.au

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MOWER

Mountain high

Inlon's new Agria 9600i remote-controlled mower boasts a new engine and a comprehensive telemetry system

Remote-controlled mowers have long proven to be the most productive method of maintaining slopes and mowing in areas with limited access and height constraints, such as solar farms.

This is in addition to the reduction of rollover risk created by removing the operator from the machine.

A lot has changed since Inlon introduced the first commercial remote-controlled mower for slope mowing in 2006, with new manufacturers and new technologies having entered the market.

The latest developments include telemetry systems to provide remote support and high performance electronic fuel injection (EFI) engines, both of which are offered on the new Agria 9600i mower.

Low impact footprint and hybrid drive

Introduced in 2019, the Agria 9600 is a tracked remote-controlled mower with unique innovations in its low-impact track mechanism and hybrid drive system. Other tracked mowers dig into the ground when turning, which is problematic when turning on slopes. The Agria low-impact track mechanism does not dig in or disturb the ground, reducing subsequent erosion and creating less ground pressure than a human foot.

The hybrid drive system is a conventional petrol engine driving a generator that provides the electrical power to control and drive the tracks and other functions. This hybrid drive system is seen as a stepping-stone to full plug-in commercial mowers of the future. The hybrid drive is at the heart of its lightweight design, requiring fewer components.

EFI engine

The latest model Agria 9600i has a Kawasaki EFI engine. Although it was introduced to meet tightening emissions standards, the EFI system brings a new level of engine performance that is ideal for slope mowing applications.

Testing has shown the EFI engine provides a 30 per cent productivity improvement.

This means reduced mowing time for the same area and vegetation level from the same rated engine horsepower.

With a conventional mechanically-governed engine, when a heavier workload is encountered, the rpm drops to pull on more fuel to meet the increased load. Rpm loss means reduced blade speed and cutting performance.

◀ Telemetry data is uploaded to the cloud, and Inlon assists operators with any issues or servicing requirements

However, the EFI engine delivers the fuel and maximum power without rpm loss, maintaining blade and ground speed for maximum productivity.

Cloud telemetry

The increasingly sophisticated engines and electrical and electronic systems on commercial mowers are perceived as a challenge for the traditional small plant technician accustomed to carburettor engines, gearboxes and belts.

However, this is where telemetry makes the difference.

The latest Agria 9600i has a comprehensive telemetry system that measures key parameters and events each second, and transmits the data via the internet to a cloud service.

Events such as high impact collisions, overheating, insufficient engine maintenance, deck belt slippage, operating speeds, workload, working angles, GPS location and system diagnostics are recorded each second, stored and transmitted to the cloud as mobile coverage allows.

Using this data, Inlon advises technicians on the ground which issues need to be addressed and servicing requirements.

This technology enables centralised and expert know-how to be utilised effectively in remote locations and assists with faster resolution of issues. **fm**

Inlon is the national distributor of a range of remote-controlled commercial mowers under its Civiline brand. Further details at www.inlon.ag/923 or call 1800 945 090.

Remote control of the mower increases operator safety



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BALE BUGGY



The Rhino cultivator has been designed for stubble cultivation and tillage



CULTIVATORS AND PLOUGHS

Sure ground

Mandam's range of cultivators and chisel ploughs are fast, reliable and available here

Recognised globally for their reliability and high quality, Mandam products are an excellent match for modern Australian farms, where fast and reliable work is what counts.

For Victorian dealer Greg Allan Farm Machinery, the Rhino cultivator and Grot chisel plough are standouts in the wide range of brands offered by the Colac-based family-run business.

Rhino

The Rhino is a bigger version of Mandam's Spec HD cultivator, with an additional fourth row of tines and a transport chassis.

Designed for stubble cultivation and tillage, it has curved tines to help to reduce the amount of power a tractor needs to use it, which significantly reduces fuel consumption.

Equipped with double spring protection and updated swingarm geometry, the Rhino can withstand much greater ground pressure than a regular machine.

It has minimal activation input force of 550kg per tine that allows, after removing detachable wing shares, aggressive tillage as deep as 30cm.

There are a variety of press rollers to choose from, while different toughness share points and profiled tines fulfil the image of a tough but universal machine.

The manufacturer suggests using the Rhino alongside the C-ring tandem roller, to help make great finish work.

The beam with alternating discs ensures efficient mixing and leveling of the field after the work of the front section.

Grot

Mandam's Grot chisel ploughs offer a great alternative to traditional ploughs, as they can work at great depths and in particularly difficult soil conditions.

When the chisel plough operates on a significant working depth, it breaks hard soil layers, so the field is evenly loosened, and crop residues are evenly covered.

Mandam Grot chisel ploughs are manufactured in two working widths with shear bolt or cylinder protection.

It has a working system with adjustable side blades and a replaceable two-sided chisel.

Grot chisel ploughs enable quick and cheap work, replacing the traditional plough, and allow for the elimination of floods in the field, causing better soaking and rooting of plants.

Excellent performance parameters are possible thanks to the possibility of driving at high speed, even up to 12km/h, which significantly reduces the costs of agricultural production and allows the field to be processed in much quicker time.

The comfort of work is also increased by the application of the shaft adjustment by Mandam, which allows the shaft to be moved away and brought closer to the machine frame.

In turn, using the tandem-toothed roller guarantees better aeration of the soil.

As standard, the Grot chisel plough is equipped with a hydraulic working depth adjustment.

Optional extras on the model include additional side rollers or side screens, plus LED lighting. The Grot plough has been designed to meet all expectations and ensure full comfort of work and excellent results. **fm**



To find out more, contact Greg Allan Farm Machinery at (03) 5231 5136.

◀ The Mandam Grot chisel plough

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PUMPING

On our selection

Selecting the wrong type of control system can cause issues in the operation of your pump. Gatis Gregors of Veldonas spells out what you need to know

Alongside selecting the right pump for your farm application, another crucial decision is in your choice of control system.

There are a wide range of options available for diesel and electric pumps to suit all budgets, Veldonas director Gatis Gregors says.

The most basic control unit, Gregors explains, is a simple key start and stop, while the most sophisticated setups can be operated with mobile phones and feed a huge range of data to devices while operating.

Based in Melbourne but selling to customers across Australia, Veldonas has operated for more than 25 years and sells every type of control system.

“For budget applications the very simple ones are the most popular and for setups where the farming application is more sophisticated - larger crop sizes, multiple units, things like that - the more expensive ones or the more sophisticated ones are used,” Gregors says.

“We offer all those different options and the prices vary according to the sophistication of the units that is put in place.

“Generally speaking, there would be only about five per cent or maybe 10 per cent of units that we sell that don't have any control equipment or protection on them, that's all.

“People are aware that with these particular pieces of control equipment, they are safeguarding their investment as well.”

Watchdog

“After the key start, the next level of control is the various watchdog systems, the simplest being low oil pressure and high temperature watchdogs,” Gregors says.

“We can offer those with adjustable levels of temperature and a digital readout of the temperature of the engine, and it will cut the unit off if there is low oil pressure on the unit or there's excessive heat on the engine.

“This may be caused by radiator failure, engine water pump failure and belt breakage, things like that.

“The next step up from the basic oil and temperature watchdog is an oil and temperature

watchdog shutdown timer. It covers you for all those things the basic oil and temperature watchdog will cover you for, but it also allows you to set the unit to operate for anything up to 48 hours so people can start the unit and set the time they'd like it to run for and walk away, which is convenient.

“This is getting into the areas of controls that are set up for people that are actually located somewhat remotely from the equipment and, in this case, it allows you to start the unit and walk away, whether you're 10km away or 100km away.”

Level up

“The next level of watchdog above that is to add in a low- and high-water pressure component units of these,” Gregors says.

“That allows you to protect the actual water pump itself from running dry.

“When water pumps run dry their seals can seize or it could be an even more catastrophic failure within the pump itself.

“To overcome that problem, these low- and high-

As well as the correct pump for the application, you should also consider what monitoring system would be of benefit

water pressure watchdogs could be added on to the basic unit.

“With the high-pressure component of this, and these are all fully adjustable in terms of what pressures you want, it means that if the delivery lines become too pressurised the unit will stop.

“This means it can safeguard against over-pressurising delivery lines, which means you can save lines from total disaster in terms of blowing them up.

“We've seen this on site before where there's something that hasn't been added and you can just see the pipes popping in the fields as they're being over-pressurised, so that's a very expensive replacement for all of this.”

Top end

“In addition to these basic units, we can also provide a remote start within visual range of up to 30m that can start and stop the units with a key start fob, similar to a car key fob, so you could start the unit, stop the unit and also throttle the unit up and down,” Gregors says.

“This is very convenient, especially for civil contractors and so on that want to fill up water trucks or do other types of applications where they're not exactly near the pump set itself but within a visual sight and can start, stop and control the unit.

“There are also automatic start and stop units so you can fully program the pump set to start at a certain time, stop at a certain time and they can be also set up to add on additional external auxiliary inputs to allow other signals to allow the pump set to start and stop.

“Beyond that you can also do things like the pump set-up to a mobile phone to start and stop, and you get notifications on your phone when it's running and stopped, and so on.

“That includes satellite phones and there's the capability of adding these units to computer control systems so you can monitor and get vital information from the pumps about what flow rates have been occurring and what sort of pressures have been occurring in the system.

“That's a very sophisticated setup. These are primarily for diesel units but, in saying that, control equipment for electrical systems are very similar and we can offer those, too.”

Veldonas Pumps is located at 10 First Avenue, Sunshine, Victoria and is in contact with customers around Australia. Gregors and the Veldonas team can be contacted on (03) 9312 0888.

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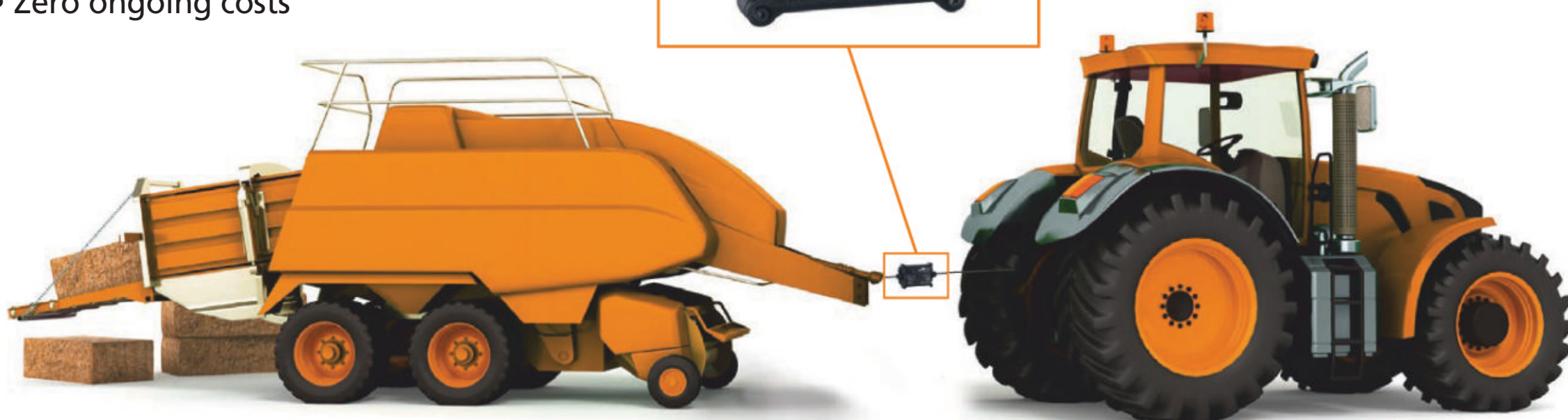




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TRUCK OF THE YEAR

Gavin's winning grin

The restoration effort behind Gavin Sutton's 1989 Mack Super-Liner has paid off big time with the old bulldog beating a strong field of contenders, including many current models, to take out the title of *OwnerDriver's* 2021 Truck of the Year. Greg Bush writes (photos by Steve Gonsalves Photographics)

Gobsmacked! That's how Gavin Sutton reacted when informed his 1989 Mack Super-Liner had been announced as the 2021 *OwnerDriver* Truck of the Year. Sutton, who runs Gavin Sutton Transport out of Tamworth in New South Wales, knew his truck was lined up against 11 other hot contenders, including five Kenworths and a couple of Peterbilts. But majority rules and the old Mack came up trumps to take out the coveted trophy.

I was quite taken aback by everyone's vote," Sutton admits.

"Most of the time people lean towards Kenworth rather than Mack. But at the end of the day it depends on the public's view on what looks good and what doesn't."

The Super-Liner's victory came via a winning tally where readers were invited to vote on the 12 Truck of the Month entries in 2021 through *OwnerDriver's* website at www.ownerdriver.com.au/toty.

Interestingly, old model Macks have become the go-to truck for rebuild enthusiasts to the point where their popularity has made them as scarce as hen's teeth.

"The last few years it's probably become more prominent I think," Sutton says.

"Ten years ago it probably wasn't as unique I suppose to do up an old Mack; you could pick one up without any trouble. You've got a job to buy one now because everybody's on the same thing."

Sutton's story on how he acquired the '89 Super-Liner in 2017 was featured in *OwnerDriver's* June 2021 edition, coinciding with that issue's Truck of the Month feature story.

Although sales of new Macks have slackened off in recent years, Sutton believes the brand's legendary status was born decades earlier.

"The iconic part of it I think was the truck was brought here and sort of opened up the outback. They were fairly prominent in the central Queensland, Northern Territory areas with stock.

"And a few of them made it into the fast lane of line haul work," Sutton laughs, "which was what mine originally started as.

"It used to do overnight express for the first five years of its life, then it did five years on explosives and then it did 10 years as a tow truck recovery vehicle.

"It was a retired tow truck when I got hold of it," he explains.

"The fellow that had it as a tow truck bought a new truck and retired that truck off and I bought it from him and just stripped it down and restored it."

Head turner

Although the classic Mack has become somewhat of a show exhibit, it's still out on the road doing the occasional local run, including moving machinery on weekends.

"No good having it and just sitting in the shed. How many shows can we go to at the moment? Every second show keeps getting cancelled," Sutton laughs.

"I just get it out and take it for a drive just to have a bit of fun. It turns heads wherever you go. There's always someone with a phone filming you wherever you go."

One of the Mack's most recent outings has been to Moree, around three hours from Tamworth.

"I'll run a couple of trailers up there, take a road train up, or something like that, just to do a trip. Or I might even just go out to Gunnedah and do a changeover with one of the other drivers so they

Gavin Sutton with his winning 1989 Mack Super-Liner

can swap trailers and don't have to come all the way home. It makes their day a bit easier."

However, when it comes to Mack-branded events, the '89 Super-Liner tends to clock up a few extra kilometres. Before COVID-19 struck, the old bulldog had appeared at the Kyabram Mack Muster in Victoria, and the Mack Muster at Gatton in south-east Queensland.

"Usually a handful of us go down to Kyabram. They have a Mack Muster every second year and a White Muster every other year," Sutton explains.

"We've still got our plane tickets on hold somewhere; I hope they're still there because it got called off at the 11th hour a couple of years ago when COVID-19 first started."

Closer to home, in fact right in town, the Super-Liner, along with a couple of other Gavin Sutton Transport trucks, has had the honour of taking part in the annual Tamworth Country Music Festival's Cavalcade down the city's main drag of Peel St.

Around 100 or so trucks, with country music stars riding behind on fancy floats, have taken part in the parade each year, although Sutton says truck numbers have at times reached as high as 160 entries.

It's also had the honour of having country music royalty, Troy Cassar-Daley, on board, not only leading the cavalcade but playing it's part in Troy's ambassadorial role for Tamworth Regional Council's 'Tune In To Recycling' campaign.

For Sutton, the cavalcade has been long been a labour of love for Tamworth's local trucking companies and has always delighted festival-goers.



“All the other transport companies here would donate a trailer and the driver would get the truck all washed up and put his kids in and see the cavalcade from the window of the truck,” Sutton says. However, with COVID-19 postponing the 2022 event from January to April, the country music festival has been downsized. Hence, the truck parade will now not run.

Viral virus

COVID-19 has also infiltrated Gavin Sutton Transport, although so far only one of the drivers has contracted the virus. Sutton, himself, was not so lucky. “I had two or three days of being knocked out on the lounge or in bed. The rest of the week I just had to serve my time,” he says. “I could have gone to work but obviously you have to stay isolated. I’m OK now.” However, COVID-19 has affected the business in other ways, with some clients suffering staff shortages due to illness. And, of course, supply issues have had an impact on new truck purchases and imported components. “We’re waiting on a new Volvo, it should have been delivered six months ago,” Sutton explains. “It’s actually the first new model FH16. I’m led to believe it’s the first one off the assembly line. The trouble is, the truck it was replacing, the trade-in, it’s got another 100,000km or more on it now. I try to get rid of them at around 700,000. Those European trucks, not like Macks and Kenworths, they don’t go forever.” No surprise then that Sutton is fan of older models, hence his high regard for the ‘89 Super-Liner. And he plans to keep it in the family. “My son Jake will probably inherit it,” Sutton says. “The majority of the mechanical part of the rebuild it we did here and Jake had a pretty major role in that.

“He’s a mechanic. He does a tiny bit of driving, but not much.” Now the Super-Liner’s status has been elevated at Gavin Sutton Transport due to its *OwnerDriver* Truck of the Year success. The trophy now takes pride of place at the company’s Tamworth depot where it will undoubtedly sit for many years to come. *ffm*

^
And the winner is ...
Gavin Sutton’s 1989 Mack Super-Liner

Gavin enjoys taking the Super-Liner out on short trips, his extra piece of freight now in the form of the *OwnerDriver* 2021 Truck of the Year trophy
v





◀ The Haymaster 40.7

Dieci takes pride in building machines with the best components and a heavy-duty chassis that will last the distance.

Its reinforced boom is made of high-resistance steel to guarantee reliability, while load sensing and flow sharing distributors allow for more simultaneous movements during operation.

Each telehandler can be customised to suit specific customer needs, thanks to a wide choice of attachments, including forks, buckets, jibs, clamps for big bales and lifting hooks, and more.

The standard for operator comfort across Australia's demanding working environments is met with ROPS-FOPS approved cabins.

Each telehandler's third-generation cabin is cooled by an advanced, Australian-designed air conditioning system, making work in harsh climates far less taxing.

A roomy interior, luxurious air seats, 360-degree views, and excellent thermal and sound insulation further add to the comfort and functionality of these vehicles.

When it comes to maintenance, Dieci telehandlers excel, with more than half a century of experience in the sector.

Access to the engine is made easy with the optimal arrangement of components that make maintenance quick and convenient.

Radiators are straightforward and fast to clean, and air filters can be reached without any tools.

The interventions required for the change of hydraulic oil are also minimal, as they are only necessary every 2,000 hours of operation.

Dieci Australia heavily invests in safety, therefore each telehandler has been manufactured to meet local design and compliance standards.

The manufacturer has an independent external engineer who signs off on every new machine or attachment that comes out, including attachments that developed by Dieci Australia itself. **fm**

Dieci's range of specialty telehandlers are available across Australia through the Dieci Australia dealer network. For more information, contact Dieci Australia on 1300 888 479 or visit www.dieciaustralia.com.au.

Dieci's heavy-duty Cotton Pro 70.10 has a seven-tonne lifting capacity



Made to measure

Dieci's range of telehandlers come with a variety of options, able to suit a number of different farming operations

Manufactured in Italy and engineered locally to meet the needs of Australia's diverse agricultural sectors, Dieci's specialty telehandlers are built tough and reliable.

Used to transport, lift and position light to heavy loads thanks to the presence of a hydraulically operated telescopic boom, Dieci telehandlers can perform various jobs using the same vehicle.

Unlike normal tractors with front lifting, these machines have far greater reach, hydraulic capacity and manoeuvrability.

Dieci works every day to evolve its machines, adopting the best solutions based on research, advice and experiences with its customers.

The manufacturer's consistent exploration has helped it develop a range of industry-specific telehandlers designed to suit the harshest Australian conditions, with several impressive attachments and features designed specifically for poultry, cotton, piggeries and hay.

With lift heights ranging from 5.8m to 9.6m, the characteristics of Dieci's specialty range can be summarised in three concepts that have always been the hallmark of each vehicle: technology, reliability and durability.

Up to Scratch

Whether you are picking up birds or cleaning out sheds, the 2.5-tonne Poultry Pick-up and three-tonne Poultry Pro models are guaranteed to help you get the job done.

These machines are designed to specifically meet the needs of the industry with several features that make them ideal for use in hot poultry sheds.

With smaller wheels to help operators navigate more efficiently, the compact design of these vehicles allows them to fit into sheds and under gantries, typically used for feeding and watering birds in their specially protected halls.

Along with a custom designed air filter system, Kubota diesel engine, double reversing fan, rollover boomhead for efficient bucket emptying and LED lights designed to avoid startling poultry, Dieci's poultry telehandlers set the standard for reliability, safety and operator comfort.

The Piggery Pro model offers similar features to the Poultry Pro, with an engine monitoring system with shutdown protection, reverse radiator fan and improved airflow to keep the engine bay clean and enhance the functionality of this vehicle.

Heavy lifting

The introduction of big, square hay-making balers, although popular with farmers, presented them with a new problem of handling and storing large and heavy packages.

The Dieci Haymaster 40.7 makes light work of hay handling and fodder with a four-tonne maximum capacity and a lift height of 7m. It also features a rear-mounted radiator, hydraulic cooler and 'Easy Ride' boom suspension.

Dieci's heavy-duty Cotton Pro 70.10 is a no-fuss, reliable workhorse with a four-cylinder Tier 3 FPT engine that is easy to maintain and service.

The 70.10 has a seven-tonne lift capacity and maximum reach of 9.6-metres, making it ideal for cotton-handling tasks such as combining bales of raw cotton, or spearing hay bales.

Dealing with such fibrous material needs some consideration, therefore a tropical cooling system, designed to shield the intercooler from cotton, debris and dust, has been added to this model, along with heat shields around the exhaust pipes to reduce the risk of overheating or fire hazard.

The oil cooler is also mounted to the rear of the machine behind the cab.

The Haymaster and Cotton Pro are both equipped with side-shift on the boom that allows users to shift the carriage from side to side to tightly pack loads. During operation, customers can move a bale from the front to the left or right side in small increments without having to move the whole machine.





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EQUIPMENT

All points

East, West, North - and all of South Australia. G&J East is making new changes to help it serve all points of the compass

South Australian multi-franchise dealer G&J East Kadina blends stability built over nearly a century of history with an eye on the future.

Having existed as a family-owned business in the state's Yorke Peninsula, north-west of Adelaide, for more than 90 years, G&J East Kadina knows a thing or two about serving the surrounding agricultural community.

Far from resting on its laurels though, the business officially became recognised as a Claas Harvest Centre within the past two years and is also undertaking a major renovation of its premises to ensure it will continue thriving well into the future.

Dealer-principal Colin Adams, who has worked with the business for 37 years, says while the

business serves a wide geographical range - including all of South Australia through its Claas Harvest Centre role - it remains a strong local business with loyal staff.

"Our core business is reaping, like headers, obviously tractors, air seeders, boom sprayers, spreaders and full service and parts departments, with 16 dedicated service staff in the workshop," Adams says.

"It's still a family-owned business - Matthew East is the owner and director of the business and he still resides in Kadina.

"It's not state-owned, it's still a local family business and Matthew's son, Alex, lives in Kadina as well and is working here too.

◀ G&J East Kadina dealer principal Colin Adams

"It's a very stable agricultural business in a good, reliable farming area on the Yorke Peninsula. We look after our staff and the staff stay on.

"We have one staff member who has been here for 46 years, two at 37 years, including myself, one at 34 years, a couple of mechanics at 26 and 25 years and a trade assistant at 26 years - so there are a number of staff members that are all in that timeframe of working here."

G&J East Kadina is situated in a strong broadacre farming area, with popular crops among local farmers including wheat, barley, canola and lentils.

The business stocks many popular machinery manufacturers, including the likes of Fendt, Gleaner and Massey Ferguson under the Agco banner, Claas and Amazone under the Landpower banner, Simplicity and Morris air seeders, Nitro and Hardi sprayers, Deutz-Fahr tractors and a number of smaller brands.

"We're a multi-franchise business, which has held us in good stead through good times and bad," Adams says.

"Even through poor seasons over the years, we haven't just been a supplier of one brand and we have other avenues to sell and service.

"Two years ago, we ventured into the Claas Harvest Centre side of it, which then gave us tractors, mowers and balers, which we hadn't been doing through Claas, we had only really focused on the Lexion combines."

Another way in which G&J East Kadina ensures its diversity and adaptability is through strong servicing and parts departments.

Adams highlights the wide geographical areas the business' mechanics have covered in recent weeks alone, in areas as far apart as Kangaroo Island, Naracoorte and Loxton.

To ensure the business ticks over to its century and beyond as a thriving dealership, a major upgrade of its premises is currently taking place.

"We're going through renovations to really move into the next 20 or 30 years," Adams says.

"We've been situated in the same position now for about 39 years and now we're having our first major upgrade of what was pretty much an agricultural shed.

"It's the first major reno in the time we've been out here and there are another eight new offices being built.

"In a perfect world without COVID-19 we would have already been finished, but we're hoping to be completed this year.

"There are a number of stages we're doing though so it's an ongoing project, but we're excited about the finished product coming up." **f/m**

G&J East Kadina is located at 4-8 Goldsworthy Street, Kadina and the full range of products can be viewed at www.gjeast.com.au

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POST DRIVERS, SLASHERS AND MIXERS

Number one

El-Gra Engineering has made safety top priority in changing its product range, with new technologies helping keep the business ahead of the curve

For family-owned business El-Gra Engineering, an unwavering commitment to safety and duty of care underpins everything it produces.

El-Gra's core business is in post drivers, slashers and mixers, and with everything being designed, manufactured and sold from their New South Wales base - the emphasis on customer service and product quality is paramount.

Owned by father and son Elton and Graeme Robinson, plenty has changed since the business started in South Nowra in 1990, but these core principles have not.

Elton, a farmer who moved into engineering after his return from the Vietnam War, knows that accountability both before and after selling a product is crucial.

"We test everything here and I make sure it's all correct," he says.

"All our products that leave the yard are all tested on a tractor, so we know the safety is correct on it. Duty of care is a big thing.

"We back the product here and I answer the phone 24 hours a day if I need to.

"We have dealerships throughout Australia but, if there is no dealership nearby, I will give the customer my number and they can call me direct.

"I will give them my mobile number for after hours and say, 'give me a call and, if I can help you out with any questions, I'll do so.'

El-Gra's emphasis on safety has seen its product range change throughout the business' lifetime, with items such as drop hammers being phased out

◀ El-Gra manufactures a range of post drivers that come in different cell sizes and be fit to a range of machinery

and replaced with alternatives that eliminate risk of injury.

"We ditched the drop hammer and went into the hydraulic hammer about 15 years ago," Elton says.

"It's a safer machine than any drop hammer will ever be because you don't need any screens around the hammer and the hammer can't accidentally fall at all.

"It's all hydraulic and it won't fire unless all the weight of the driver is actually on the post, so the injury factor on a percussion driver is nil.

"The cement mixers are all paddle mixers, which are also user-friendly because they're hydraulic and they empty out to one end with a chute. You can't get in to the top because it's got a grate across it, so you can't accidentally fall into it.

"We think about safety all the way and we don't leave any little holes for people to be injured."

Another area which has changed over time is the role of technology in El-Gra's design and engineering work.

Having completed a "top to bottom revision and upgrading of the engineering shop" in the past decade, the business has added numerical machine control, sophisticated computer-aided design (CAD) software plus plasma and laser cutting of machine parts to ensure they are at the forefront of design trends.

El-Gra's local design and manufacturing means they can build and customise according to any customer requirements to ensure they are catering to the widest possible audience.

"We cover all bases of people," Elton says.

"If someone says they want a post driver on one side of the tractor and one on the other side, I can manufacture that.

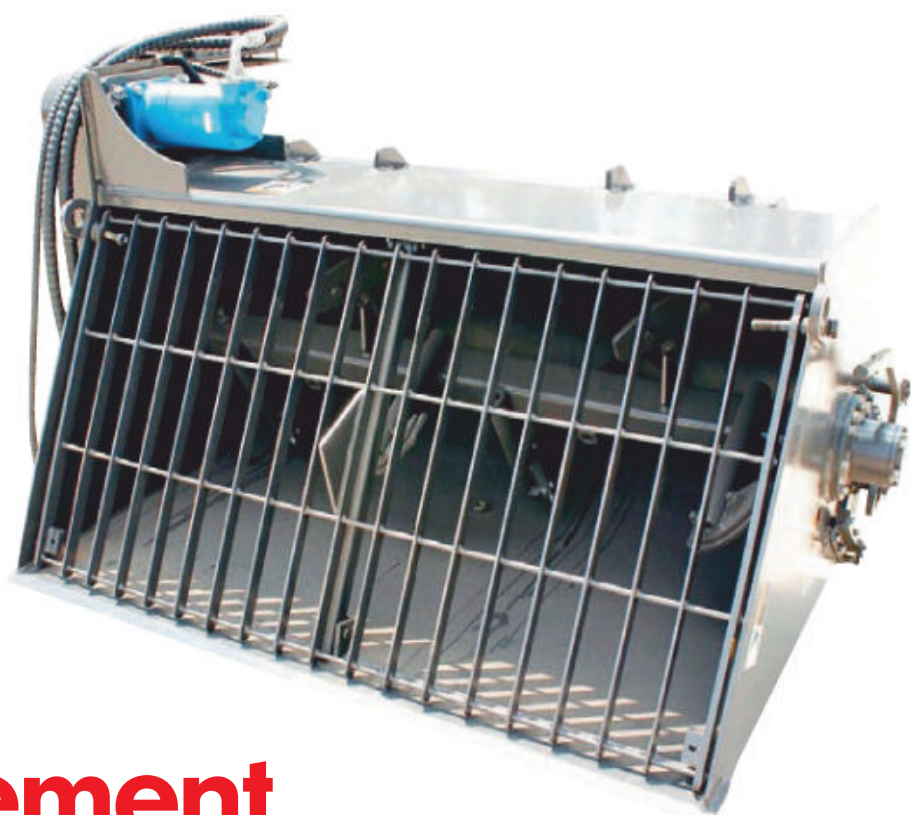
"The other thing we do on a post driver is we have four different cell sizes - there's a 50, 75, 100 and 200 as far as the post drivers go.

"There's a high lift version as well as a 2.5m under the hammer.

"There's one for a bobcat, one for an excavator, one for a front-end loader and one for a telehandler."

El-Gra Engineering is located at 21 Central Avenue, South Nowra.

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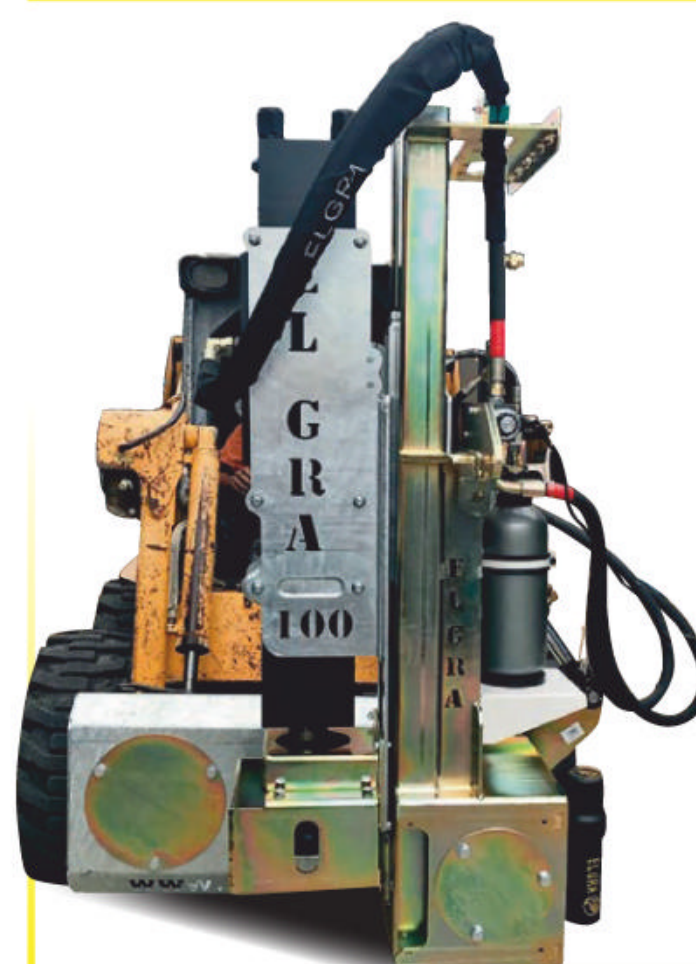


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TILLAGE

Making the grade

Makin Traks is branching out into graders, bringing its focus on selling quality secondhand equipment to a whole new specialty, but providing the same benefits to farmers

Challenges with securing supplies in the wake of COVID-19 is a common story across the country, and Daz Scale, the owner of Sunshine Coast premium secondhand equipment dealers Makin Traks, says his customers have not been immune.

Demand has been high for the company's supply of quality secondhand bulldozers, and Scale says this demand has also rolled over onto graders - a machine the company had not previously stocked.

"For the past six months, where people have known us for quality in the dozer realm, they would come to us and say 'oh if only you did this,'" he says.

"So we started sourcing some of those and they have been a red hot ticket item - I think it is just because of the serious delay in new gear that is taking hold worldwide.

"It was just going to be another string to our bow, but now a lot of them are sold before they even get here."

Like its dozers, Makin Traks secures its graders from quality overseas dealers, typically with about 5,000-6,000 hours on the clock - a level that Scale says means the grader still has plenty of life left in it.

Typically, the models are either Caterpillar graders - the 140, 140 M2, 140 M3, 12M2 and 12M3 being the most popular; or from John Deere, typically the 670, 672, 770 and 772 models.

"You can get a lot larger but this is sort of your go-to," Scale says.

"Just in getting them to Australian standards and specifications -there are certain sizes that are particularly suited for our work environment."

Makin Traks, based at Yandina on Queensland's Sunshine Coast, has developed a solid reputation as a premium secondhand dealer, priding itself on

the care it takes to ensure that it provides the best machine possible, for the hours that have been worked.

"We are just applying the same model - the same quality of workmanship, the same workshop report, the same effort that we are renowned for in the dozer world; we're just incorporating that into the grader space," Scale says.

That means seeking out a service history and an ECM product status report to verify the hours worked on every machine to be sold, putting together a 40-point workshop report, an itemised service report and a handover folder for the machine in question.

Using a serial number to check a vehicle's service history is also an essential step for Scale - as well as determining how much of that servicing has been done by the manufacturer, and how much by third parties.

"You apply the same principles that you do to dozers, but instead of focusing on the blade out the front, the undercarriage and the tracks, with the grader it's more about the blade, the turntable and the articulation," Scale says.

The turntable and lifting cylinders typically control the grader blade, which Scale says does the lion's share of the work on a typical grader - and thus is where most of Makin Traks' effort goes as well.

"The work that we do, taking it into the workshop, is going over the shims, going over the turntable, going over the lift cylinders, going over the guides, going over the articulation pins, going over the lifts then the seals... there are all just those wear components there that are already on

After seeing strong demand for graders, Makin Traks is now importing high quality machines, mostly Caterpillar and John Deere

the machine but at 5,000 or 6,000 hours they just need adjusting," he says.

"The articulation allows the back to move independently of the front, so you can just angle it out and have it go in an articulated motion instead of being a solid unit," he adds.

Makin Traks will also make additions to the graders on request, with many customers seeking out additional GPS levelling capabilities.

"We fit them with their preferred level end device GPS device whether it be Sitech, Kommand, Precision Partners, Trimble... whichever brand they wanted to go with," Scale says.

Customers also often sought out a push block at the front of the unit and a Multi Shank Ripper at the back - both of which are designed and developed by Makin Traks.

In addition to that, Makin Traks offers its customers ongoing servicing at either 250, 500 or 1,000 hour intervals - depending on what the customer wants.

"People are going to end up with the same quality product that represents value for them for the hours on the machine," Scale says.

"It is just another product that we are adding to the fleet where it goes through the same system."

For more information, visit: www.makintraks.com

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ENGINES

The Alldiesels Top 11 engine issues

Alldiesels' general manager Byron Ansiewicz provides expert advice on aspects to avoid when purchasing a new truck engine

Over its 25-plus years of experience and after helping tens of thousands of Australians and Australian businesses keep their operations running, second generation family-owned business Alldiesels Australia is well placed to be an authority to both the good and the bad of buying a new, used or rebuilt diesel engines, and shares insight into challenges.

Top 11 mistakes (not to make) when buying your next diesel engine:

1. Thinking the day you have a problem, you will be able to buy the exact replacement engine you need

Particularly in the current environment with supply chain issues and slower and more expensive freight, there is less stock on the market and longer lead times.

If you anticipate you are going to have requirements for a replacement engine, the sooner you have that discussion and source the engine, the better placed you are going to be.

Having an engine sitting in surplus is often a lot cheaper and less stressful than being down on a piece of equipment or machinery for an extended period of time - right when you need it.

2. Only contacting the new dealers and not understanding the industry

Another mistake would be only contacting the branded dealers and distributors, and not considering that there is a market of independent engine sellers.

Alldiesels is the largest independent seller in Australia that specialises in heavy US & European diesel engines, though there are also large dealers that specialise in Japanese makes or lighter engines that are worth exploring if those are your requirements.

Similar to a branded car dealership, branded dealers such as Caterpillar or Cummins are often limited in the stock they can supply (generally new engines), and will have a less extensive range, not to mention typically limited to one brand, than an independent dealer.

Engine brands Alldiesels deals in, for example, include: Caterpillar, Cummins, DAF, Detroit, Iveco, John Deere, Mack, MAN, Mercedes, Perkins, Scania, Volvo and more. This also means Alldiesels has expertise across a broader range of engines and can provide unbiased advice as it is not limited to just one brand or solution.

3. Not understanding the difference between buying from a wrecker vs engine builder

A wrecker or dismantler will often buy a wrecked vehicle or piece of machinery, knowing that they

need to dismantle and sell each component of that wreck, including the engine to make a profit.

A wrecker is, more often than not, not an engine builder. They will have some mechanical understanding, though, typically, will not have the expertise or specialised equipment to be able to properly inspect an engine, run diagnostics and test an engine under load in proper simulated conditions.

You're often buying blind. Expert advice and buying an engine that has been thoroughly inspected and tested under load will save you both time and money. A wrecker also may not have the capability to resolve warranty issues if they arise.

Exercise caution when buying a used engine to ensure it has been properly load tested. Simply running an engine at idle, or even through its rev range with no load, is as good as useless.

To test an engine properly you need to be able to get everything up to temperature and operate under load, as that is when most issues become apparent and can be diagnosed.

Alldiesels has have a team of specialised engine builders and sales and support team who build engines all day, every day.

4. Not realising that the same engine often has multiple specifications

The same engine make and model will often have a number of different specifications. For example a Cummins M11 will come in the base spec, as well as Celect or Celect Plus variants.

These different specifications can be due to updates over the time the engine was manufactured, have different horsepower ratings, or have differences that make them suitable for different applications.

Matching the serial number from your existing engine is the best way to ensure you are buying the correct engine.

5. Not considering the difference between new, used and rebuilt

There are pros and cons to buying a new, used or rebuilt engine, such as warranty, history and budget.

The decision comes down to the buyer's circumstances and requirements for the engine, though it is worth considering which of these options is relevant to you.

6. Not all rebuilds are created equal

When comparing rebuilt engines, it is critical to ensure you are comparing apples with apples.

The term 'rebuilt' does not have a single generic meaning in the industry. Often engines marketed as 'rebuilt' have had a very limited build and few new/replacement parts.

◀ **Alldiesels general manager**
Byron Ansiewicz

Often, components such as turbochargers, injectors and air compressors are not rebuilt or replaced with new in these 'rebuilt'.

There is nothing necessarily right or wrong with purchasing a partial or full rebuild, but no two rebuilds are the same and often buyers are not aware of the differences.

Most importantly, the buyer needs to understand the extent of the rebuild and the quality of the parts used in the rebuild. Have genuine parts been used? What is the quality and reputation of the parts if non-OEM have been used? There is a long list of questions that a buyer needs to be asking to know the extent of a rebuild.

7. Buying with no warranty (or a warranty not worth the paper it is written on)

Typically this will apply when buying from a wrecker or if buying a one-off piece from a small seller of an engine surplus to their requirements.

What is the fallback if something does go wrong?

Buying from a business with decades of experience and a track record of supporting customers provides for a lot of peace of mind that a warranty will be honoured and expertise is available when unforeseen challenges arise.

8. Not understanding that the same engine can be manufactured by multiple manufacturers

Often, engine manufactures will share the research & development cost and production costs for engines through collaboration projects - for example the Mack MP8 and the Volvo D13 are the same engine with only a different rocker cover and inlet manifold, and are interchangeable in the vast majority of applications.

If you are looking for a replacement engine, you can often find an identical specification engine that has been built in the same factory with a different brand marking on that engine.

9. Not understanding the tax benefits available

It is always worth speaking with your accountant when buying an engine to understand the tax benefits available from purchasing a new, used or rebuilt engine. If you are financing the engine for your business, the interest is often a deductible expense too.

10. Trying to import an engine yourself

The internet has opened the door for people to try to self-import engines. Alldiesels imports hundreds of engines every year; and know first-hand it isn't for the faint of heart.

As a do-it-yourself buyer trying to figure it all out, there are the added logistics (time and cost) of trying to ship an engine into Australia, pass through quarantine, and then what is your recourse when the engine turns up in Australia after waiting for months and it is either the wrong specification, has been damaged in transit, or doesn't run properly?

Is it all worth the time, effort and uncertainty when you can buy from a supplier such as Alldiesels Australia, with stock landed in Australia and tested, with warranty and a team of experts on the ground?

11. The cost of sitting on a decision and down-time

One of the most common costly mistakes is simply sitting on a decision.

Sure, if your engine has failed on you, no-one looks forward to the expenditure on the replacement, but the downtime can cost hundreds or even thousands of dollars for every day that people sit on their hands and don't get things moving along. So, making decisions and keeping things ticking along is often the less expensive way to go about it in the long run. **fm**

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Bullets, bushels & barrels

With Ukraine a major exporter of the world's grain, the current war with Russia will impact global commodity prices

Decreases in grain exports due to war will have a knock-on effect on global grain prices

Looking back over the past 110 years, there seems to be a close correlation between bullets flying and the price of both bushels of wheat and barrels of oil spiking upwards.

On March 9, crude oil prices hit a 13-year record high of US\$126 (A\$172) per barrel, up from US\$111 in 2012, while the price of wheat hit a 14-year high of US\$12.09 (A\$16.47) a bushel, up from US\$9.43.

You don't have to be a trading genius to know that there is a link between the price of oil spiking and war in an oil region. But what about grain? After all, food security is as important as fuel security, and COVID-19 taught us it does not take long to clean out the shelves if something goes wrong.

No doubt the horror stories of the darkest hours of the Soviet era still lie deep in the Ukrainian psyche, having suffered through the Great Famine - a deliberate attempt by Stalin to force collectivisation onto the Ukrainian rural peasantry between 1932 and 1933.

In total, over five million people died of starvation as grain was hauled away to the cities in what is remembered as the Holodomor.

Hopefully, the current Ukrainian resistance will eventually convince the Russian forces to go back home, or, better yet, the Russian elite will wake up that Putin is bad for business and permanently retire him from the world stage.

This would allow Ukraine to focus on once again being the grains basket of Europe, with 32 million hectares of highly productive black soil averaging 3.8 tonnes of wheat per hectare.

Since breaking away, Ukraine has significantly climbed the ranks in global exporters, today being No. 3 in the world with wheat making up 12 per cent of global exports, corn 16 per cent, barley 18 per cent, and canola 19 per cent.

Between them, Russia and Ukraine account for 29 per cent of global wheat exports, which is eerily like that of the Middle East in terms of their share of global oil exports, which sits at 34 per cent.

Also eerily similar is the fact that both Black Sea grain and Middle Eastern oil producers must run the gauntlet of two narrow necks of land - the Bosphorus and the Dardanelles - to get into global shipping waters.

If you wanted to pick a couple of choke points to threaten the world's grain and oil trade and drive



Trevor Whittington,
CEO WAFarmers

the price up, then these two offer perfect opportunities to lob missiles or mines into, to shut down trade - something the British Empire and our ANZACs found out the hard way back in 1915.

Any war that impacts access to the Ukraine and Russian breadbasket results in a spike in grain prices.

We have seen the same thing happen post-war because of the Middle Eastern conflicts. Any war that impacts access to the Middle East results in a spike in oil prices.

It does not take much to spook markets when one side resorts to bullets to get what they want.

In the Gulf, when this happens, the Americans are quick to step in, but in the Black Sea, the Americans are not so welcome, with it being the Russians' backyard and Turkey determining who enters and leaves.

Besides, any supply crunch out of the Black Sea that drives up the price of wheat and corn is not going to upset American farmers or their congressmen, hence they are in no rush to be sailing up the Dardanelles with the Seventh Fleet.

But, even without the threat of the shipping lanes being closed, the current conflict is driving up the

price of grain. The supply shortage of grain is exacerbated by the closure of ports in Ukraine and the refusal of shipping services to enter both the Black and Marmara Seas for insurance reasons.

Add to that Russia's wheat exports are already down about 20 per cent year-on-year, as it is believed that Putin was bolstering domestic supplies in anticipation of the Ukraine invasion, and the potential uplift in export prices caused by damage caused to transportation infrastructure.

So, we have in part a war-induced grain price spike and an oil-induced grain price spike both happening at the same time.

What's interesting is the link between oil and grain is bigger than anything to do with drought or war, as economists have shown a 0.7 out of 1.0 positive correlation of grain prices following up the oil price.

But, as always, there is nothing like high prices to bring down high prices. Prices reversed soon after the last peaks when the global financial crisis led to a decrease in world oil demand, resulting in a drop in crude, dropping 70.3 per cent from July 2008 to January 2009.

In turn, wheat prices declined 24.2 per cent over the same period. Prices for agricultural commodities again increased rapidly from mid-2010 to mid-2011, with wheat up 91 per cent while crude prices rose 50.1 per cent.

In the period from 2014 to 2018, as oil production increased, it saw a sharp drop in crude prices decreasing 52.5 per cent with wheat prices falling 16.2 per cent.

So, even without a war in the Middle East or the grain basket of Ukraine and Russia, there is a correlation of wheat prices following oil prices up and then down. No doubt global crop plantings, drought, fertiliser costs and economic activity have much to do with driving wheat production and prices, just as exchange rates, interest rates and economic activity drives oil demand.

But we can also see that outside the normal supply and demand pressures there is a link between bullets flying, barrels pumped, and bushels grown. It's all connected but it's nothing new, we have seen it all before and we will see it again. **fm**

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A big blunt weapon engineered for show ponying on city streets? The new **Chevrolet Silverado 1500** truck range might keep chrome panel fabricators in business, but it also has more tech tricks up its sleeve than you might be expecting. And it'll go well off the tarmac, too

Words **Cameron Officer** Photos **Simon Patience**

Truck and trail

The Chevy Silverado 1500 range is a bundle of fun and full of practical technology and convenience features

Spending a week with the latest iteration of the Chevrolet Silverado 1500 revealed a full-sized truck that also sports a full-sized load of techno trickery designed to make it easy to live with and endlessly practical. Yes, even in the paddock.

There are three states of dress models in the Silverado 1500 range.

The Silverado LT Trail Boss gets things rolling with - arguably - the most appropriate hardware, for this part of the world, and specifically farmers, namely all-terrain tyres and no-nonsense bodywork.

The truck on these pages - the LTZ Premium - sits next in the line-up, while the rugged HD LTZ Premium (which swaps out the chrome for black-out accenting but retains the full leather trim) sits at the top of the tree.

Power on

The Trail Boss and LTZ Premium rely on the 313kW/624Nm power and torque spread from a 6.2-litre V8 petrol EcoTech3 engine under their broad bonnets, while the HD LTZ Premium swaps to manufacturer General Motors' 6.6-litre Duramax turbodiesel V8. There's plenty of power on tap here, but then you probably guessed that already.

A useful illustration of the way GM steps up through the Silverado range is to, literally, look at each iteration's ride height.

The LTZ Premium is the lowest-slung at 1,933mm tall, while the Trail Boss, with those chunky Mud-Terrain Goodyear Wrangler DuraTrac tyres,

sits at 1,963mm. The HD LTZ Premium wears 20-inch Goodyear all-terrains and rides highest at 2,039mm.

So, yes, these are all big vehicles across the board. There's no getting away from that. But that's all the better for what many buyers will use them for - towing stuff.

Haulin'? Ask...

A huge amount of attention has been given to ensuring the Silverado 1500s are absolutely fit-for-purpose with something hanging off the towball. This is reflected in the amount of safety and convenience spec given over to the art of haulin'.

The Silverado 1500 range arrives with two maximum braked tow ratings, depending upon what sized towball is fitted (a tow bar is standard, the towball is an optional extra). With a 50mm ball fitted, max capacity tops out at 3.5 tonnes, although with the larger 70mm ball in-situ, braked towing capacity rises to 4.5 tonnes for the LTZ Premium spec trucks, or a shade over 4.2 tonnes for the Trail Boss.

The LTZ Premium offers the biggest maximum payload by a slim margin at 760kg, with its load bed accessed by a sturdy electronically-operated tailgate.

With the potential for plenty of weight out beyond the rear axle, GM gives the Silverado LTZ Premium driver a suite of safety aids to help get the boat, car trailer, mini digger, or whatever else from A to B in a reassuringly controlled fashion.

These include a trailer brake control system to

prevent sway, and a hitch guidance system as part of the Silverado's 360-degree camera view package (which offers up to 15 different views around the vehicle), making lining up on the towball a doddle.

Then, before you head off, the LTZ Premium spec trucks also feature an in-cab trailering app, which helps with everything from pre-departure checklists to diagnostics for tyre pressure and lighting.

Invisible touch

The Silverado LTZ Premium also has a port for a trailer-mounted accessory camera in its rear bumper, which can effectively render big boxy tow-alongs like horse floats 'see-through'.

This transparent camera view works by lining up the image from the camera attached to the back of the trailer and the camera at the back of the truck. It then detects the edges of whatever is being towed and outlines it but also shows the view behind the trailer, giving the Silverado driver a handy view of what's following, beyond what the large wing mirrors show.

It's all rather clever stuff and the Silverado LTZ Premium's tech spread doesn't end with towing assist features. Yes, the truck might represent a broad slab of beef, but inside the cabin, driver and passengers alike can access plenty of premium petit fours.

Sound and around

Highlights include a seven-speaker Bose Premium sound system through which Apple CarPlay or



A



B



C



D



E



G

The Silverado line-up consists of three options, with our test LTZ Premium sitting in the mid-range price-wise

LED headlights, fog lights and daytime running lights are standard

The rear bench also flips up, adding extra space for larger items inside the cab

Clever secret seat squab stowage for whatever you need to stash away

The standard Bose stereo system incorporates Apple CarPlay and Android Auto

An XL-sized truck needs an XL-sized cabin. As you'd expect, there's plenty of room in here.

This standard port in the rear bumper is for a trailer-mounted accessory camera, which can effectively render larger items being towed, like horse floats and caravans, 'see-through'



F



If you have the luxury of space and an implement or toy shed big enough to house it, then you'll never outgrow a Silverado

^
The SM130 is compact for a 13 cubic metre capacity wagon. Available in 11 or 13 cubic metres, larger sizes will be made available soon

▼
The Silverado LTZ Premium has plenty of power in reserve thanks to its 6.2L EcoTech3 V8 up front

Android Auto help access music, podcasts and contact info from the driver's smartphone. That smartphone can be charged wirelessly, while fully powered heated and ventilated seats, a powered sunroof, and dual-zone auto A/C are also part of the picture.

The Silverado LTZ Premium's safety spec is similarly comprehensive, with adaptive cruise control, rear cross traffic alert, lane keep assist and lane departure warning all present as part of a wider suite of driver aids.

Verdict
The Chevy Silverado 1500 range is a bundle of fun

and full of practical technology and convenience features. It's so big, it's actually useful (in a way that many 'standard' sized double cab utes reveal themselves not to be in some situations), with all the solidity and comfort its oversized footprint implies.

If you have the luxury of space and a shed big enough to house it (alongside all the things you need it to tow), then you'll never outgrow a Silverado. It'll be a sturdy, clever companion for work and play - a solid, surprisingly clever alternative to the usual fodder on the market. *fm*

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Chevrolet Silverado LTZ Premium (with tech pack)	
Price	\$134,990
Engine	6.2-litre EcoTech3 V8
Power	313kW
Torque	624Nm
Transmission	10-speed automatic
Kerb weight	2,540kg
Gross vehicle mass	3,300kg
Maximum payload	760kg
Maximum braked towing capacity	3,500kg (50mm ball)/4,500kg (70mm ball)
Maximum unbraked towing capacity	750kg
Overall height	1,933mm
Overall length	5,931mm
Overall width	2,063mm
Wheelbase	3,750mm
Turning circle kerb-to-kerb	14.3m
Approach and departure angles	21°/21°
Ground clearance unladen	260mm



LP Series

Introducing the LP8000, 8 meter or 6 meter width Land Plane, twin mast independent for lift precision, dragging capabilities of approximately 5 cubic meters.



DG Series

The DG Series is currently being manufactured in 3.6m or 4.2m width Drag Grader has independent lift for laser precision. Dragging capabilities of approximately 3.5-4.5 cubic meters



Bale Bull Round

The BBR maintains a strong robust design capable of handling the heaviest bales. This machine is capable of carrying two bales and feeds on both sides. It is one of the only machines in the market that is able to feed the toughest of silage bales



HDE Ejektor

Cut Sizes 3.2, 3.6, 3.9 & 4.2m -Rips -Carries -Cross levels -Laser levels.



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Leopard Ejektor

Cut Sizes 3.0, 3.2, 3.6, 3.9 & 4.2m -Rips -Carries -Cross Levels -Laser Levels.



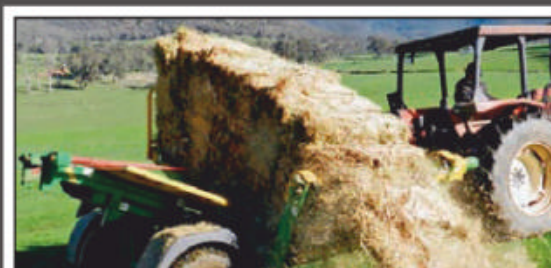
HDB Bucket

Cut sizes 3.6m & 4.2m
-Rips -Carries
-Cross levels -Laser levels.



Honey Badger

Cut sizes 2.7, 3.0 & 3.2m-Rips
-Carries -Cross Levels -Laser Levels.



Bale Bull Square

Features an adjustable moving arm for feed out control and on road transport, capable of carrying two bales.



Honey Badger DA

Cut sizes 1.8, 2.1 & 2.4m
-Rips -Carries -Cross levels
-Laser levels

For more info, check out our YouTube Channel and Facebook Page under JN&R Engineering



Events calendar

Here are upcoming field day and agricultural events for 2022. Information was current as of going to press

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 market style shopping, food and entertainment.

When: April 1-3, 2022

More info: www.seymourexpo.com.au

NQ Field Days - Townsville

Now under new management, this agri-event located near Townsville strives to showcase best practices in farming, technology, machinery, equipment, manufacturing, aquaculture and mining support services.

When: April 7-8, 2022

More info: <https://nqfd.net.au>

Agrotrend - Bundaberg

Agrotrend provides two days of farming and lifestyle-focused activities for the whole family to enjoy, whether you are keen to check out and invest in the latest farming technologies or are after a great afternoon out with the family. Events include an alpaca competition, agility dog display, poultry show, vehicle displays and the Rum City Vintage Machinery Display.

When: April 8-9, 2022

More info: www.agrotrend.com.au

East Gippsland Field Days - Bairnsdale

An iconic event on the East Gippsland calendar, this Bairnsdale-based field day has proudly been run by the

Lindenow Lions Club since its inception in 1986. With over 350 exhibitor spaces and numerous quality promotions at the Field Days, East Gippsland is definitely not one to miss.

When: April 8-9, 2022

More info: www.egfielddays.com.au/

Diesel Dirt & Turf - Sydney

Diesel Dirt & Turf Expo is a family-friendly event designed to boost the Western Sydney construction boom - showcasing the biggest range of earthmoving machinery dealers, earthmoving attachments, trucks, bikes, utilities, mowing equipment and much, much more.

When: April 8-10, 2022

More info: www.dieseldirtandturf.com.au

Tocal Field Days - Tocal

Highly regarded for its educational aspects, Tocal Field Days provides an opportunity each year for landholders and the community to see first-hand a range of livestock and animal handling and husbandry skills. The site also features a large land management area that provides great information on caring for our environment, looking after our native animals and managing feral pests that threaten our landscape.

When: April 29-May 1, 2022

More info: www.tocalfielddays.com/

Freds Pass Rural Show - Freds Pass

Running for over 40 years, the Freds Pass Rural Show is known for its strong rural theming with a vast range of equestrian events, livestock judging, animal displays and other entertainment.

When: May 14-15, 2022

More info: <https://fredspassruralshow.com.au/about-us/>

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



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Production is set to hit **\$81 billion** in 2021-22

PRODUCTION

Top dollar

ABARES heralds ‘unprecedented’ agricultural production value forecast for the current financial year

Farming in Australia has never been more valuable according to the latest forecast, with production expected to hit a record \$81 billion in 2021-22.

The projection, made by the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES), exceeds the previous record by \$12 billion, set in 2020-21.

Commodity prices performed even better than predicted, with this performance following record high crop production as well as the highest produce prices in over three decades.

“This is an unprecedented result, and it can be put down to a combination of record high crop production, and the highest prices (in real terms) for Australian agricultural produce in 32 years,” ABARES spokesperson Dr Jared Greenville says.

“Australia has harvested what will be the most valuable winter crop ever, even after accounting for flood and rain damage in parts of NSW.

“The total value of agriculture, fisheries and forestry production will also reach a record of almost \$87 billion in 2021-22.”

In ABARES’ agricultural overview for the March quarter, figures indicated the harvested winter crop will be the most valuable ever, even following grain quality discrepancies following a wet harvest period.

Elsewhere, agricultural exports were expected to reach \$64 billion in 2021-22, also a record, thanks to high export volumes of produce sent to 178 countries around the world.

Despite the record-breaking forecast ahead, Greenville warned the back-to-back record production won’t last and suggested a return to normality is on the horizon.

A return to more average seasonal conditions, lowering international prices and decreases in crop production will likely result in a decrease in overall gross value of agricultural production.

The value is expected to fall by six per cent in 2022-23 to \$76 billion – a figure which would still place it as the second highest on record.

Over the medium term, production is forecast to fall further, underpinned by the threat of at least one drought, and will range between \$65-\$70 billion in 2026-27.

“But we cannot expect such good conditions to continue indefinitely. We are expecting the gross value of agricultural production to fall by around six per cent to \$76 billion next financial year, which is still the second highest on record,” Greenville says.

“With production at record highs and high prices, increases in income are likely to far outweigh the additional pressure of higher input costs for fuel, fertiliser, chemicals and labour.

“But we will need to keep an eye on farm costs as commodity prices come back to normal.” 



PRODUCTION

Winter wheat production reached **36.3 million tonnes**

Record crops

The right amount of rain in the right places has helped to drive Australia’s winter crop production higher, according to new estimates

Sustained rainfall has propelled Australia’s crop production to new heights as the forecast winter crop harvest was revised even higher, the country’s agricultural bureau says.

With the winter harvest now complete, the final figure for winter crop production is forecast to be 61.9 million tonnes, according to the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) as outlined in its *Australian Crop Report: March edition*.

The record haul was underpinned by the country’s top grains in wheat (36.3 million tonnes), barley (13.7mt) and canola (6.4mt), which all set new national records for crop production.

The record winter harvest represents a six per cent upward revision from ABARES’ December 2021 estimate.

“Winter crop harvests have smashed our expectations back in December,” says ABARES executive director Dr Jared Greenville.

“Now that the winter crop harvest is complete, the national winter crop production is estimated to reach a record 61.9 million tonnes. This is being supported by record production for wheat, barley and canola.

“It hasn’t all been smooth sailing – the effects of a wet spring and summer have meant that a lot of the grain in New South Wales has been subject to weather damage and a degradation in quality.

With the winter harvest in the books, the projection for summer crops is also favourable,

benefiting from the above average rainfall over the summer that is expected to continue into autumn.

Projections for the national summer crop indicate production will rise by 64 per cent to 5.3 million tonnes in 2021-22, which will be the fourth highest on record for a summer crop.

Despite record November rainfall which caused loss and inundation of some early sown summer crops, the favourable conditions in key growing states such as Queensland and New South Wales will be beneficial and could result in further record yields.

Total planting area sown for summer crops has also increased by 48 per cent to 1.5 million hectares and sits 35 per cent about the rolling 10-year average. Dam storage levels have also increased the plantings for irrigated cotton and rice.

“It’s also been an extraordinary season for summer crops in Queensland and northern New South Wales. We’ve had well above average rainfall during late spring and summer to support production prospects,” Greenville says.

“For the year ahead, there is a lot to be optimistic about. According to the latest three-month rainfall outlook [March to May], issued by the Bureau of Meteorology in February, rainfall during autumn is more likely to be above average in most cropping regions.

“While we know that La Niña can’t last, we can still expect good autumn rains to finish off the summer crops and support winter crop plantings in 2022-23.” 

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SUPPLY CHAIN

Rapid change

Inflation and supply chain issues will weigh on food markets in the year ahead

Supply chain issues stemming from the lingering implications of the pandemic could pose the biggest disruption to the global food market this year, Rabobank says.

The agribusiness specialist suggested food markets must be ‘highly dynamic’ throughout 2022 as the emergence and spread of the Omicron variant continues to disrupt food markets.

Namely, supply chain issues and labour shortages have resulted in increased inflationary pressures in the global food market that will likely continue throughout the first half of 2022, according to Rabobank senior analyst Michael Harvey.

“Food companies and retailers need to navigate supply chain vulnerabilities,” Harvey says.

“Meanwhile consumer movement is voluntarily cautious, leading to reduced foot traffic.

“Over the course of 2022, the channel distortion we have seen should eventually return to pre-pandemic norms, but it will clearly not be as linear.”



Michael Harvey

Key among 2022’s food market disruption is a rapid and structural pace of change, which suggests different types of food and beverages will benefit more from the Omicron-induced pressures.

Products more catered to those preparing and eating food at home will see demand grow, Harvey suggests, while foodservice products will be negatively impacted by the reduced mobility of consumers.

“There are some clear pandemic winners, including products catering to consumers who work (and eat more) at home and have a preference for home snacking and convenient meal preparation,” he says.

“This, of course, takes place against a backdrop of increasing consumer demand for natural, clean, fresh, and personalised food products. While e-commerce in the food system has enjoyed a transformational boost during the pandemic through the acquisition of new consumers.” **frm**



BEEF

Cash cows

Growing beef prices have done little to dissuade consumers, according to Rabobank

Meat eaters are seemingly eating more beef than usual throughout the pandemic, causing prices to reach their highest levels in five years, Rabobank says.

The increased consumer appetite for beef has been heightened by lockdown restrictions, additional disposable incomes from COVID-19-related stimulus packages and limitations on available alternative protein sources, the agribusiness specialist says in its *Q1 Global Beef Quarterly* report.

Higher consumption levels and supply chain pressures, which continue to build, have caused global beef prices to soar 23 per cent higher than the five-year average in the United States and 24 per cent higher in China.

“Over the past two years, retail beef prices have been phenomenal,” Rabobank spokesperson Angus Gidley-Baird says.

The higher appetite for beef has resulted in growing supply chain issues, which Gidley-Baird says have resulted in some of the highest retail beef prices in history. However, consumers have continued to pay top dollar for their beef.

“With beef supply unable to keep up, the increase in demand has created an imbalance in the market and, as a result, beef prices have lifted,” Gidley-Baird says.

“While price rises in beef have been dramatic, the fact they have been largely caused by consumer demand has meant they have been accommodated. That is, consumers have been willing to pay higher prices to continue consuming beef.”

Gidley-Baird says some of the supply chain pressures, such as freight and energy costs, are cyclical and are expected to decline, yet other



Rabobank spokesperson Angus Gidley-Baird

pressures such as labour and sustainability, must be accommodated.

“Further increases in beef prices run the risk of consumers substituting other proteins or reducing their overall consumption, and we are starting to see signs they might be reaching their limit,” he says.

Nationally, rains in the early stages of the year in key cattle production regions in central, northern and eastern Australia will support production.

Australia’s already strong cattle market will benefit from a large restocking and herd rebuilding year following several dry years in northern parts of the country.

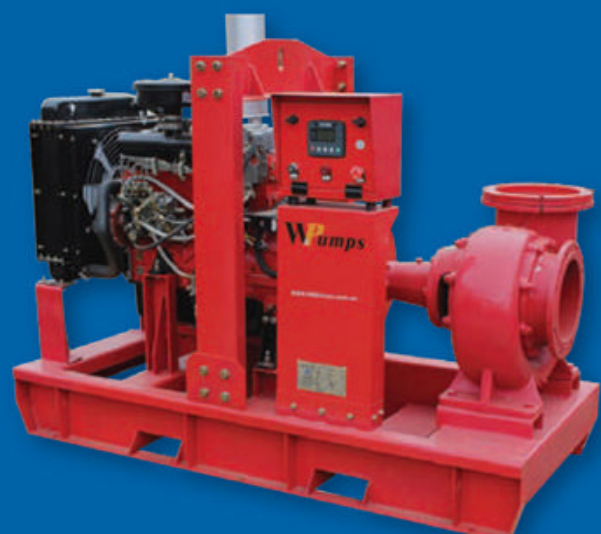
Cattle exports ended 2021 down 15 per cent on 2020 volumes, according to Rabobank, with key markets of the US (down 31 per cent), China (-25 per cent) and Japan (-13 per cent) all regressing. **frm**



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WHEAT

Hell in the breadbasket

More than a third of the world's wheat exports come from the Black Sea region. Rabobank spells out what the conflict means for wheat, and for Australia

Russia's invasion of Ukraine will have significant ramifications on the global and Australian grain and oilseeds market, according to agribusiness specialist Rabobank.

Rabobank agricultural analyst Dennis Voznesenski writes that wheat prices could rise by as much as 61 per cent from current levels if the conflict continues into July when the Black Sea harvest commences, having already risen 21 per cent since the beginning of February.

The ongoing conflict in Ukraine will likely result in grain exports ceasing in the short term due to blockages to shipping and the costs associated with exporting grains. Western sanctions targeting Russia will also likely impact wheat exports and will result in structural changes to global wheat flows, according to Rabobank.

Both Ukraine and Russia are among the world's top producers of wheat according to figures from

the Food and Agriculture Organization of the United Nations (FAOSTAT).

Together, Ukraine and Russia, along with other wheat-producing countries in the Black Sea region such as Turkey, Romania and Bulgaria, account for 34 per cent of global wheat exports.

Any loss of access to wheat exports from the Black Sea region would be the first occurrence of such since an Ottoman Empire blockade on wheat supplies in October 1914 during the First World War. In that instance, wheat prices rose 45 per cent in four months, Voznesenski says.

In Australia - the globe's sixth biggest wheat producing nation - wheat and grain exports could experience increased demand if Black Sea exports are unavailable, especially following the record winter harvest.

Should the Russo-Ukraine War continue as a full-scale conflict, resulting in a halt to Black Sea exports,

◀ Wheat prices could rise as much as 61 per cent
inset: Dennis Voznesenski

local prices could rise from A\$367/tonne to A\$425/tonne in the short-term, with prices rising sharply should the conflict and sanctions continue and affect supplies into July.

That said, limits on Australia's export capacity and the size of its recent large harvest will prevent local farmers from receiving the full upward impact of the anticipated price rise.

Voznesenski says the ramifications of the conflict on global wheat consumption could result in a change in how we consume and use wheat.

"Globally, the conflict could see both a change in trade flows and usage of wheat," he says.

"Approximately 160 million metric tonnes of the world's wheat [20 per cent] is used for feed and this is where substitution is likely to occur to compensate for a potential 60 million metric tonnes of wheat exports annually no longer coming out of the Black Sea region."

Rabobank also issued a warning for other grain and feed markets which could be impacted, including canola, barley, sunflower seeds and sunflower oil.

Ukraine is the world's third largest exporter of canola and barley, while Russia and Ukraine are the world's biggest producers and exporters of sunflower seeds and oil.

Ukrainian corn was also meant to account for 17 per cent of global production this year, but about 15 million tonnes has so far been left unexported.

If they are not available, Voznesenski predicts feed buyers will turn to feed barley instead, helping push Australian feed barley prices higher. **fm**

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MARKET

Shipping slowdown

Tractor sales down in February as supply challenges remain

Sales of agricultural tractors were down in February, although they remain at very high levels, due to the ongoing challenges with supply.

As we have previously stated, dealers continue to cope with the challenges associated with managing workforces around COVID-19 restrictions, the ongoing shortage of stock and now the impact of the devastating rain events on the East Coast.

The entire supply chain for tractors is presently being impacted but it appears that it is locally at Australian ports where the longest delays are being experienced.

Unloading of both containerised freight and roll-on, roll-off freight is extremely slow at present and it is perhaps timely that the Productivity Commission has begun an enquiry into the efficiency of the maritime logistics system.

Tractor sales across the nation were down in February by 13 per cent compared to the same month last year.



Gary Northover is executive director of the Tractor & Machinery Association of Australia (TMA). He can be contacted on (03) 9813 8011 or at gary@tma.asn.au

Beginning in NSW, sales were down three per cent for the month and are now two per cent behind last year. Queensland was down five per cent to be now one per cent behind and Victoria was 20 per cent behind last February and is now nine per cent down on the year to date (YTD).

Sales in Western Australia recorded another drop, 35 per cent for the month, to be 32 per cent off YTD, South Australia also dropped five per cent. Tasmania was again down, this time by 22 per cent,

whilst sales into the Northern Territory dropped 46 per cent.

Looking at the performance reporting categories, the under-40hp (30kW) category was down nine per cent, to be three per cent off YTD. The 40 to 100hp (30-75kW) range was the only bright spot again, up strongly six per cent in the month to remain six per cent ahead YTD, and the 100 to 200hp (75-150kW) category was down 18 per cent. The large 200hp (150kW) plus range was again down, this time by 34 per cent compared to the same month last year and is now 38 per cent off YTD.

For combine harvester sales, dealers are reporting strong interest, with the only issue potentially preventing another good year being supply.

Baler sales were down 33 per cent in February and sales of out-front mowers finished down 26 per cent on the same month last year.

Demand for agricultural machinery is presently very strong worldwide and there are many reports of pricing pressures being felt throughout the market.

Most manufacturers appear to be exercising restraint, with moderate increases only being applied. It remains to be seen if this continues with the various inflationary pressures in play at present and, with the Temporary Full Expensing Program set to run until June 2023, we expect demand to remain high.

Planning is well underway for the 2022 TMA Conference, which has been scheduled for July 20 at the Hyatt Essendon Fields in Melbourne. Tickets will be on sale shortly, keep up to date on our newly revamped website or on Facebook. 



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UKRAINE

Bitter crop

Farmers and farm managers are escaping Ukraine as Russia invades, putting the nation’s harvest in jeopardy. Our European correspondent Chris McCullough reports

With some farmers leaving Ukraine and farm staff fighting for their country, there are fears the Russian invasion will significantly hurt this year’s Ukrainian harvest.

As Russian troops advance across the country, farmers are unsure if they can start seeding spring crops in March to get this year’s harvest underway.

There are many foreign-owned and -managed farms in Ukraine, but some of these farm managers have chosen to leave the country to wait and see how this illegal occupation by Russia will develop.

So far, the Ukrainian military and local defence forces have kept the Russians at bay from most of the country, but the invasion is already causing huge problems for Ukrainian agriculture.

While tanks instead of tractors roam the fields, prices of seeds, fertiliser and chemicals have escalated and getting bank loans to buy them is a huge challenge.

However, there is some progress as farmers in western Ukraine have started the fieldwork, closely monitoring the situation in other parts of the country.

Known as the breadbasket of Europe, Ukraine produces 12 per cent of global wheat exports, 16 per cent of corn and 18 per cent of barley exports.

Mike Lee is a director with Green Square Agro Consulting, which specialises in agricultural projects and forecasting crop yields in Russia and Ukraine.

“Ukraine’s wheat crop is nearly all planted in the [European] autumn and currently stands at 6.5 million hectares,” he says.

“Spring wheat is planted from now through March and was forecasted to be around 175,000 hectares, bringing the total wheat area to 6.7 million hectares.

“This is down significantly on last year but broadly in line with the long-term trend.

“However, if the situation on the ground escalated to a position where farmers could not apply fertilisers or pesticides, and assuming they could harvest it in July, there would still be a wheat crop, probably down to around 16 to 17 million tonnes. This compares with 26 to 27 million tonnes we currently forecast if farmers are unencumbered to manage their crops.

“Ukraine requires around 10 million tonnes of wheat for domestic consumption. Depending on the scenario, that will leave between six and 17 million tonnes available for export through the 2022-23 marketing year from June to July,” Lee says.

Looking at the situation with corn, Lee says it is typically planted through April and May.

“Most farmers will have seed purchased, and it should be on farm,” he says.

“A lot of fertiliser is imported from Russia ... but Russia introduced a temporary ban on ammonium nitrate exports from February 2 to April 1, 2022.

“This was probably more about high fertiliser

Ukraine’s wheat crop currently stands at around 6.5 million hectares

prices and Russian protectionism than forward thinking, although ammonium nitrate is a very effective explosive.

“The current unencumbered forecast is 37 million tonnes from 5.5 million hectares. With domestic consumption about seven million tonnes, this leaves 30 million tonnes for export through the 2022-23 marketing year.

“This could drop to zero if farmers cannot plant the crop, but a middle ground would be fewer hectares and lower yield from fewer inputs, giving a possible crop of 19 million tonnes, with exports down to 12 million tonnes.”

Another big issue with exports is the shipping routes. At the time of going to press, Russia controls ports in the Azov Sea by controlling access through the Kerch Strait.

Located east of Crimea, the Azov is a shallow sea limiting shipping to shallow drafts, often transferred to larger shipping in deeper water. Most grain exports originate further west through the Black Sea ports from Kherson, Mykolaiv and Chornomorsk, and the deep water berths at Yuzhnyi and Odessa.

Lee says there has been talk of closing the Bosphorus Strait to shipping to restrict the Russian navy or Russian trade - a move that would leave a couple of additional ideas to consider.

The Bosphorus connects the Black Sea to the Sea of Marmara which, through the Dardanelles, connects to the Aegean and Mediterranean Seas.

“A lot of Black Sea wheat goes to north Africa and the Middle East who rely on regular shipments to keep bread prices low,” Lee says.

“Presumably, these regions would kick back hard against any blockage. Plus, as grain prices go through the roof, which they are already starting to do, the commercial pressure to ship grain will be tremendous.”

“Having said that, insurance and risk tolerance of ship owners willing to enter ports in a war zone is more likely to affect exports,” Lee says.

Whether farmers can apply fertilisers and pesticides will affect the spring-planted crop yield





While farmers in Ukraine would like to take advantage of current high prices and sell wheat and corn, shipping it to customers is not going to be easy.

Iurii Mykhailov, former President of the Union of Agricultural Journalists of Ukraine, is based in central Kyiv.

“CMA CGM Group has decided to suspend all vessel calls to Ukraine from February 24 until further notice,” he says.

“The same decision was made by Maersk. The company cancelled all ship calls and closed its office in Ukraine.

“The global agricultural commodity trader Cargill Inc said the ocean-going vessel it had chartered was hit by a shell in the Black Sea, but the vessel retained its seaworthiness and the crew remained safe.

“Egypt’s state grain buyer has cancelled an

international procurement tender for wheat. Egypt has not received offers of either Russian or Ukrainian wheat. Also, the global agricultural commodity trader Bunge Ltd said it closed the company’s offices in Ukraine and suspended operations at the port of Mykolaiv. The Bunge’s competitor Archer-Daniels Midland Co said its facilities in Ukraine, including a terminal in Odessa, are not operating.”

Dr Keith Dawson from the UK is a crop expert and director with a farming company growing crops in Ukraine and says the situation there is in flux.

He said: “We own and manage Central Plains Group near Lviv in the west of Ukraine. In total we run 2,000 hectares of potatoes, maize, soya and peas, but potatoes are the main crop.

“Work has already started in our fields, but there

Even if Ukranian farmers have wheat to export, getting it out of the country will prove complicated
Inset: Dr Keith Dawson

will be some problems. Getting fuel, fertiliser, seeds and labour will be a problem this year and costly as global prices will rise yet again.

“We aim to get back to the farm as soon as possible but we have a super local team based there.

“The situation is very fluid there obviously. Supply chain issues are a big challenge, especially with the Black Sea and Azov Sea which are key for wheat exports,” he says.

All eyes are what happens next in Ukraine but the invasion is sure to escalate food prices around the world. *fm*



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ANZ says grain exporters should remain watchful of production strength in other countries

GRAIN

What’s in store

Building global grain reserves will benefit exporters

Australian exporters have benefited from the food security programs of other countries, but they should be aware that offshore storage levels may peak, according to ANZ’s latest *Agri Commodity Report*.

The report analysed 20 years of global grain export data to look at what it could mean for industry forecasts.

Grain prices are most impacted by short-term developments, such as the strength of that year’s crop, as well as the relative conditions.

The report says one major driver of grain prices will be the food security programs of major importers, as they look to build major reserves of food and feed.

The world has continued to lift overall reserves of wheat and rice, the two major staple crops, since the last major global supply shock 15 years ago.

ANZ’s head of agribusiness research Michael Whitehead says this has created upward pressure in grain prices, in turn benefiting Australian growers and others.

“Given the current geopolitical volatility, combined with the logistical disruptions and supply shocks though Covid, it is likely that a number of major grain importers, particularly in Asia and the Middle East, will look to increase their grain reserves further,” he says.

“This is good news in the longer term for Australian grain and oilseed exporters, as it pushes up the strength of global demand for our exports beyond just supply food and feed requirements for the short to medium-term.

“That said, Australian exporters should also remain watchful of when particular importing countries’ strategic reserves may be near capacity, or when those countries have a good production year, which would reduce the need to tap into their reserves.”

Whitehead adds that China will likely continue to be the biggest driver of this, as it holds the world’s largest share of reserves in several major grains and oilseeds.

“According to USDA, China holds around 70 per cent of the world’s corn reserves, 60 per cent of the world’s rice reserves, and importantly for Australian producers, 50 per cent of the world’s wheat reserves, and 30 per cent of the world’s canola reserves,” he says.

“Late last year, China re-emphasised its aims of increasing domestic grain production, and set specific production targets for different provinces to achieve.

“Despite that, China will continue to need to import substantial volumes of grains and oilseeds, including from Australia, particularly as its hog herd shows strong recovery from African Swine fever, which will require increased feed.” **frm**



LIVESTOCK

Jolly jumbucks

Demand for sheep meat exports forecast to remain strong

Australian sheep saleyard prices look set to remain relatively strong, driven by an excellent outlook for export demand.

According to ANZ’s latest *Agri Commodity Report*, the long-term outlook for lamb and sheep prices is very good, despite the disruptive factors currently impacting the supply chain.

“Australian sheep meat - both lamb and mutton - remains a premium product with ongoing strong demand both domestically and globally,” ANZ director of agribusiness research Madeleine Swan says.

“Domestic demand and the national flock rebuild has been the primary driving force behind the Australian sheep industry’s strong performance in recent years, however growing international demand has also been a key contributor.

“Internationally, sheep meat consumption remains far less per capita than beef, poultry or chicken, and the United Nations Food and Agriculture Organisation forecasts a continued increase in per capita consumption in the medium-term.”

As one of the world’s largest sheep meat producers, Australia is well placed to take advantage of this increase in global demand.

Historically, Australian lamb has traded at a discount to European and United Kingdom lamb

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Demand for sheep meat is still going strong, boding well for producers

and is slightly more expensive than NZ lamb.

A strong increase in New Zealand lamb prices, stemming from export demand from the United States, China and Europe, has recently seen New Zealand lamb prices return to par with Australian lamb.

“At the same time, Europe and the UK’s relatively small flock size has contributed to higher operational costs, which is largely accepted by European consumers who see local lamb as the higher quality product,” Swan says.

“2020 saw a sharp increase in the saleyard prices of Australian lamb, which increased the price gap between our New Zealand competition, giving New Zealand a competitive edge going into the price-sensitive China market.

“The continued demand from China for lamb as a pork substitute also helped push New Zealand back up to par with Australia.

“With the opening of the British market to Australian lamb, and a decline in UK lamb production, it is expected that demand for Australian produce will increase against more expensive UK and European lamb.

“New Zealand mutton also recently surpassed the price of Australian mutton, making the outlook for Australian sheep exports very strong.” **frm**

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Australia's female cattle herd now looks set to deliver one of the biggest calvings in years

LIVESTOCK

Beef boom

Huge calf numbers to impact beef supply chain

After an eventful two years for the Australian beef sector, driven by high prices and a volatile trade landscape, calf numbers look set to rebuild in 2022. According to ANZ's latest *Agri Commodity Report*, current factors point to this year having one of the biggest calvings in years, which may impact the industry for years to come.

"All signs indicate that this will be the third good season in a row for most Australian cattle producers," ANZ's head of institutional food, beverage & agribusiness Ian Hanrahan says.

"Since the end of the drought in NSW most regions, including much of Queensland, have seen a continuation of good rainfall and relatively even weather.

"As a result, pasture growth has been excellent in most regions and cattle have been able to grow at a strong rate, without the pressure of major weather stresses.

"Australia's female cattle herd now looks set to deliver one of the biggest calvings in years, and also one of the healthiest.

"This is because many of the first calvers, now two or three years of age, will be in excellent condition and therefore likely to have easier births and deliver stronger calves.

"After two years of solid restocking, breeder numbers are already high.

"When the first 2022 calves hit the saleyards later this year, we can expect to see a rapid rise in supply, which might mean some price relief for feedlotters and processors.

"Given that some producers will be predicting this wave of calves onto the market, we may also see an early rush to sell before the surge, as is often the case with annual lamb sales.

"That said, if the season stays strong, and export prices remain high, then it is quite possible that restocking activity won't decline to the extent some are forecasting."

The surge in calf numbers this year is likely have implications right through the supply chain.

"For producers, it is likely to bring many of them back to pre-drought farm herd numbers, if not higher, and allow them to focus on new strategies for their business, rather than just rebuilding," Hanrahan says.

"For processors, it could also mean a return to near or full operating capacity, which will boost their ability to fulfil the strong demand from domestic and export markets.

"In addition, for consumers, there's also a chance this could reduce beef price pressure at butchers, supermarkets and restaurants, which would make beef more competitive with chicken." **fm**



DAIRY

^
ANZ says the market is looking positive for dairy prices in Australia

Stronger sector

Industry factors point to strong future Australian dairy

The Australian dairy industry is currently experiencing a positive combination of domestic and global factors which could play a role in strengthening the sector for the long term, according to ANZ's latest *Agri Commodity Report*.

The Australian dairy industry has faced some challenges in recent years, including sustained production growth from the major export competitors of New Zealand, the US and the EU, which has price rises lower at the farmer level.

Disruptions from COVID-19 have also halted the flow of products such as infant milk formula being exported to China.

However, as the dairy industry heads into 2022, a combination of both global factors, as well as domestic structural factors, have combined for a very positive outlook.

"In terms of global competition, not only are the major competitors producing less milk, for a range of reasons, but the biggest exporter, New Zealand, may be past 'peak milk', reducing Australia's competition in the long term," ANZ head of agribusiness Mark Bennett says.

"This long-term reduction in supply could support sustained higher prices for our producers.

"With Australia's milking herd having been trending downwards for the past 25 years, the domestic dairy production sector may be reaching a structural floor.

"In the same way that Australia's sheep industry has done over the past decade, this could see dairy herd numbers flatten out, before potentially starting to rise again."

As milking yields have consistently risen, technological and genetic advances have continued to be taken up by the dairy production sector, and many dairy farms of today are now looking favourably to the long-term, it all bodes very positively for the future, says ANZ.

While sheep and beef cattle prices remain high, there will still be competition for some dairy country, but this may well also level out, given the strength of today's farmgate milk prices. Additionally, while labour availability will also be a challenge for some dairy producers, technological advances in the industry are likely to reduce this in the long-term.

In terms of demand, as consumers both domestically and globally increasingly pursue healthier diets, especially in the wake of COVID-19, demand for dairy products should remain strong.

"These factors also mean that the flow of outside investment into both dairy production and processing could well grow in 2022," Bennett says. **fm**



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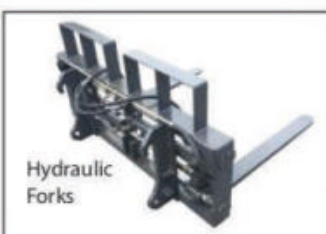
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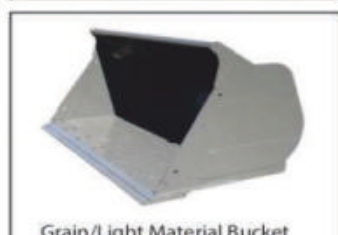
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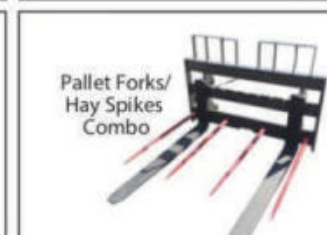
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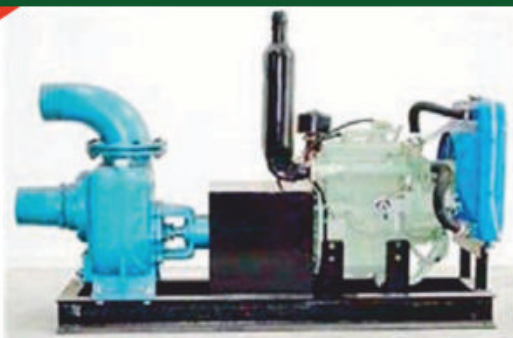


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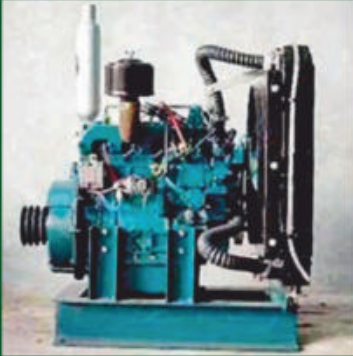
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UHI UWL280 2.8T loading capacity, USA Cummins 123HP diesel engine, free 4in1 bucket, fork attachment. S6. TA1090042. \$54,990



UHI UME10S 1.0T mini excavator with swing boom and expandable track, free 9 attachment. S7. TA1090052. \$12,990



UHI UME12 NEW 1.2T mini excavator with swing boom and Expandable Track, Kubota engine, 3 years parts warranty, free 9 attachments. S8. TA1090062. \$17,990



UHI UME15 new model arrives, UHI UME15, 1.5T mini excavator, Kubota engine, free 8 attachments. S12. TA1095007. \$18,990

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MASSEY FERGUSON 148 TRACTOR (PH: 08-8323 8795) Massey excellent, ready to go. 6899. 7A1071758.



JOHN DEERE 5525 FWA TRACTOR (08) 8323 8795 2005-2008, 4 wheel drive, ROPS & roof, 81 hours indicated. PTO, with front weight frame (no weights), serial no: 1V525R5256168. Serial No: LV525R5256030 (YET TO BE DETAILD). 7073. \$42,000 INCL GST



NOBLET & FORREST SD175 TRAILER MOUNTED AIR COMPRESSOR with 7018. 7A11035390. \$14,950 INCL GST



KUBOTA K008-3 MINI EXCAVATOR (08) 8323 8795 year approx. 2015, serial no: 40940, engine no: 4EW899, product identification no: JKUK0081J01H40940, 1,800 hours approximately, 4 cylinder diesel, 2 x buckets:- 450mm GP, 900mm tilting mud bucket, ripper, SWL65kg, fold down roll frame, hydraulic track adjustment, new rubber tracks, good tight machine, ready to go. 7062. 7A1121629. \$28,950 INCL GST



HOWARD CONNOR PLM 350 WINGED FOLDING MOWER GALVANISED .. 6949. 7A1086715. \$19,000 INCL GST



NEW HOLLAND 14050 TRACTOR (PH: 08-8323 8795) 4 wheel drive, year approximately 2013, air con cab, 1 owner, tyres 75% all round, 97 horsepower approximately, excellent condition throughout. 6838. 7A1050651. \$34,500 INCL GST



CASE IH 495 TRACTOR (08) 8323 8795 2 wheel drive, air conditioned cab, approximately 53 horsepower, quick release front end loader with bucket, approximately 4,500 hours, yet to go through workshop, grape bucket available to suit extra \$700. 7063. 7A121633. \$29,850 INCL GST



SICMA TSD/170 SHREDDER/FLAIL/SLASHER MOWER with front feeder, shaft, etc. 177 cut, ideal for mulching vineyard canes. 6970. 7A1094333. \$8,600 INCL GST



JOHN DEERE Z910A ZERO TURN RIDE ON MOWER PH: 08 8323 8795 serial no: 11C910AVALCT030688, engine no: FX651VA195005, fitted with 7 iron Pro 54" Cutting Deck, approximately 578 hours indicated, beacon light, unit in excellent condition. 7028. 7A1113807. \$12,850 INCL GST



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ATTACHED

MASSEY FERGUSON 240 TRACTOR WITH FRONT MOUNT FORKLIFT (PH: 08-8323 8795) tractor with front mounted forklift, 2 wheel drive, 3 point linkage, power steering, tyres excellent all round, 45 horsepower approximately, mechanically good, been through workshop & ready to go. 6822. 7A1076997. \$17,850 INCL GST



CHRIS GROW 8' CUT SLASHER (08-8323 8795) Chris Grow 8' cut slashers, Heavy Duty, twin rotor, 3 point linkage, twin rear wheels, clutch, primed & painted. 7048. 7A1117833. \$12,850 INCL GST



FORD 3600 TRACTOR (08-8323 8795) 2 wheel drive, full cab, 3 point linkage, PTO, power steering, approximately 50 horsepower, ready to go. 7044. 7A1116941. \$12,450 INCL GST



INTERNATIONAL HYDRO 84 TRACTOR (PH: 08-8323 8795) 2 wheel drive, hi clearance, power steering, approximately 2,046 hours indicated. PTO, ready for row crop work or boat towing, 45 horsepower approximately, excellent condition. 7039. 7A1115414. \$13,000 INCL GST



JOHN DEERE 5065M TRACTOR (PH: 08-8323 8795) Tractor, year approx. 2011, 4 wheel drive, diesel, serial no: 1LV5065MFB3J47255, engine no: 3V255, approx 4,493 hours indicated, 65 horsepower, air conditioning, enclosed cab, radio/cd, radio UHF/VHF, ROPS, approx 65 horsepower. (PRICE INCLUDES FRONT END LOADER FITTED). 6754. 7A1037949. \$47,950 INCL GST



MASSEY FERGUSON 4245 TRACTOR (PH: 08 8323 8795) tractor, 4 wheel drive, self levelling front end loader, forks & bucket, air conditioned cab, approximately 3,800 hours indicated, 85 horsepower approximately, 3 point linkage, 4 rear hydraulic remotes on rear, excellent condition. 6971. 7A1095032. \$47,000 INCL GST



KUBOTA M90 TRACTOR (08-8323 8795) 4 wheel drive, air ready to go. 7046. 7A1116944. \$22,450 INCL GST



KIOTI DK551 TRACTOR (08) 8323 8795 4 wheel drive, year approximately 2010, 4 speed manual, 299 hours indicated, serial no: LA1100044, 3 point linkage, PTO, ROPS & roof. 7064. 7A1121635. \$28,950 INCL GST



NEW HOLLAND MC28 FRONT MOUNT MOWER 4 WHEEL DRIVE 3 cylinder diesel, serial no: TE203239, engine no: J443-87335, approximately 932 hours indicated, hydrostatic transmission, 1900mm slashing deck, PTO, pneumatic tyres, ROPS, ex council. 6828. 7A1046646. \$14,950 INCL GST



KUBOTA B3150 TRACTOR, 4 WHEEL ASSIST (08-8323 8795) 4 PTO, Kubota LA534 front end loader with 4 in 1 bucket plus underdeck mower. 7042. 7A1116935. \$36,000 INCL GST



MASSEY FERGUSON 240 TRACTOR (PH: 08-8323 8795) Massey Ferguson 240 tractor, 2 wheel drive, new tyres all round, extra hydraulic pump, power steering, 45 horsepower approximately, new roof. 6893. 7A1070342. \$16,850 INCL GST



CONNOR SHEA 18 ROW DISC SUPER SEEDER (TRAILING) with rear bag loading platform, exceptional condition, no rust in boxes, ready to go. 6948. 7A1083803. \$17,950 INCL GST



VERMEER V3550A CHAIN TRENCHER (PH: 08 8323 8795) twin cylinder Deutz, vin no: TVR5072P8V1000390, diesel, front blade & rear chain, approximately 614 hours indicated, tyres excellent, unit in excellent condition, ex government. 6818. 7A1044539. \$28,950 INCL GST



NEW HOLLAND LM732 TELEHANDLER (PH: 08-8323 8795) year approx. 2014, 4 cylinder diesel, serial no: FNHLM732NBHK73040, engine no: 110271238, approx 3,740 hours indicated, powershift, with boom, quick hitch, fork tyre attachment, hydraulic provisions, yard hitch, enclosed air con cab, been used in warehouse, yet to go through workshop. 7023. 7A1111031. \$64,000 INCL GST



BONNE SWEEPER/ROAD BROOM HYDRAULIC DRIVE WITH CONTROLS 3 point linkage, hydraulic drive, with controls, to be serviced. 6877. 7A1059344. \$7,950 INCL GST



WIEDENMANN TERRA SPIKE XP8 DEEP AERATOR ATTACHMENT attachment, 2mtr working width, 3 point linkage, PTO driven, spikes X16, rollers, LED tail lights, lifting points. 6798. 7A1041056. \$11,500 INCL GST

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MAGNUM 275, MAGNUM 290, MAGNUM
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QUADTRACK, STX450, STX485, STX500

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5140, 5150, 7120, 7130, 7140, 7150,
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5610, 5640, 6000, 6600, 6610, 6700,
6810, 7000, 7600, 7700, 7710, 7840,
8000, 8210, 8230, 8340, 8401, 8600,
8700, 9000, 9600, 9700,, TW5, TW10,
TW15, TW20, TW25, TW30

INTERNATIONAL

385, 414, 434, 444, 484, 514, 554, 564,
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,
6588, 6788, 844S, AW6, AW7, AWD6,
AWD7, B250, B275, W6, W7,

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1750, 2010, 2020, 2030, 2040, 2120, 2130,
2140, 2250, 2450, 2650, 2850, 3010, 3020,
3120, 3130, 3140, 3350, 3640, 3650, 4010,
4020, 4030, 4040, 4050, 4055, 4230, 4240,
4250, 4255, 4430, 4440, 4450, 4455, 4555,
4560, 4620, 4630, 4640, 4650, 4755, 4760,
4840, 4850, 4955, 4960, 5010, 5020, 5310,
5515, 5300, 6030, 6110, 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, 8370RT, 8400, 8400 TRACK, 8410,
8430, 8360RT, 8440, 8450, 8520, 8520T,
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8960, 8970, 9400, 9410R, 9420T, 9430T

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TJ425, TJ450, TL70, TL90, TM125,
TM135, TM195, TN55D, TN95F, TS100,
TS100A, TS110A, TS125A, T9060

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CASE IH MXM190 2004, FWA/4WD, Cab-Tractor/loader, Hours: 2456, hp 190, VIN/Serial #: ACM230466, Front Tyre Size: 600/65R28 Front Tyre %: 80, Rear Tyre Size: 650/75R42Rear Tyre %: 80. 1DH 9NJ. TA1119285. **\$110,000**



CASE IH MAGNUM 215 2008, FWA/4WD, Cab - 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. E26JZ. TA1123532. **\$82,500**



CASE IH CVX120 2004, FWA/4WD, Cab-Tractor/loader, Hours: 5556, HP 120, VIN/Serial #: DBD0082640, Front Tyre Size: 16.9-26 90 % Rear Tyre Size: 18.4-38 40 % CVT Vario Transmission 40k, Front axle. DBD0082640. TA1099097. **\$71,500**



CASE IH PUMA 195 2018, FWA/4WD, Cab-Tractor/implements, Hours: 4046, hp 195, VIN/Serial #: ZGBH50693, Front Tyre Size: 600/65R26 Front Tyre %: 40, Rear Tyre Size: 650/65R52 Rear Tyre %: 50. ZGBH50693. TA1120963. **\$145,200**



VICON RV2160 2008, Round Baler/Wrapper bale Pack Bales: 55000. Located Trafalgar Contact Andrew Noonan 0412 610903. VGRW000382. TA1115035. **\$38,900**



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**



KUHN VBP 2160 2010, Round Baler/wrapper, Bale pack 9500 bales. Located Trafalgar call Andrew Noonan 0412 610903. VGRW000525. TA1115034. **\$73,700**



VICON RV1601 Round Baler/Wrapper Combination paddock ready. Located Trafalgar, Call Andrew Noonan 0412610903. RW0000033. TA1062292. **\$55,000**



CLAAS VARIANT 385 2012, Round Baler 18000 bales. Located Trafalgar, Call Andrew Noonan 0412 610903. 75203404. TA1115030. **\$27,500**



KRONE COMPRIMA V150 XC 2018, Round Baler, Bales: 4500, net wrap, like new. Located Trafalgar Call Ron Hampton 0412 544077. WMKRP701S20988463. TA1115854. **\$59,500**



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



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



KUHN EL 201-400 2008, Rotary Hoe, Brand new packer roller. Located in Tasmania Longford. Call Simon Maloney 0419 348 023. 200189. TA1039344. **\$13,200**



CASE IH DCX131 2003, Mower conditioner 4m steel rollers with travel buggy. Located Tasmania. Call Tas Mundy 0400 077953. NCA0096353. TA1077189. **\$25,000**



LELY OVERUM 6 BURROW D623 Blade Plough. Located Longford, call Tas 0400 077953. D698HL525230111. TA1077057. **\$12,000**



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

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FLEXI COIL PD5700/3850 PD5700/3850
2012, Parallelogram Precision Hoe Drill 60' (18.3mt) Width in 5 sections 12" spacings on 3 ranks, 5.6mt transport width 60 row units - Double shoot opener, Smooth profile packing wheel, individual depth control and fully adjustable breakout (275-55lb) from the cab seat Seeder is matched up with a Flexicoil 3850 tow behind Air Cart 3 bin 380bu Capacity (13,400lt) Split in litres 4,150/3,300/5950 Flexcontrol IV 254mm (10") Load/unload auger. TA1029421. **\$181,500**



MANITOU MHT860 Telehandler, 1611 hours, 8 metre boom, 6 ton lift, scales, industrial pallet forks, GP bucket, 130 HP engine. Good condition. TA1122723. **\$115,000**



JCB LOADALL 531-70 Agri super 2016, Telehandler, 2,974 hrs, 130 HP engine, 6 speed transmission -40 KPH, 400/80r24 Tyres, 2 cube bucket and pallet forks,A/c , AM/FM radio, hydraulic pin look, smoothride. TA1100432. **\$102,300**



CASE IH PUMA 165 CVT 2010, 6500 hours, 600/65R28 front @ 90%, 650/65R42 rear @ 90%, front fenders, light bar, beacon, front suspension, cab suspension, 540/540E/1000/1000E PTO, three point linkage, pro 700, 372 receiver. TA1104863. **\$99,000**



CASE IH MAGNUM 370 CVT 2013, ultimate spec Magnum, 5000est HRS, dual 480/80R50 rear, 480/70R34 fronts, 50 kmh CVT transmission,540/1000 pto, linkage and quick hitch, 4 rear remotes, nav, 372 receiver. TA1101389. **\$209,000**



MACDON R116 2017, mower conditioner PTO Pull type rubber rollers tidy new blades. TA1108648. **\$60,000**



DIECI AGRI PLUS 40.7 2017, Just traded, PS evo telehandler. Complete with GP bucket and pallet forks. 1000 engine hours, 4 speed powershift, FPT diesel engine. A/c cabin. Extra lighting UHF. Located In Griffith. TA1058832. **\$110,000**



INTERSALES UNKNOWN 2021, 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. TA458044. **POA**



UNKNOWN UNKNOWN new and used The silos come in many different sizes starting at 16m3 perfect for seed silos or the hobby farmer wanting to feed a small number of livestock, and up to 137m3 for serious grain storage. TA1011908. **POA**



VICON RSXL 2500I extension -. TA1094952. **\$8,800**



MACDON R85 2016, 16ft mower conditioner, hydraulic drive, steel intermeshing conditioner rollers, forming shields, skids, tidy order shedded. TA1078448. **\$57,200**



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FLEXI COIL 5500

60ft Air Drill, 10" spacing, c/w hyd tynes, 4" presswheels, single shoot TBH air kit, very good condition.. 51132/. TA1124742.

\$242,000



CASE IH 4430 PATRIOT

4800Lt, 36m, c/w Aim Command, 2" fill pump, Auto height, Auto section, PRO700, Accuguide complete, 2012 model, 380/90R46 tyres, good condition. 51145. TA1120992.

\$242,000



CASE IH 7140

Axial flow combine, c/w straw chopper, Rocktrap, very good condition. 51081. TA1055133.

\$324,500



CASE IH 8120

Axial Flow Combine, 2009 model, c/w PRO700 display, Accuguide ready, good condition.. 51164. TA1120990.

\$176,000



CASE IH 4430 PATRIOT

36m boom, 6000L tank, c/w Aim Command Flex, PRO700, Accuguide complete HP enabled, Auto Greaser, height control, 36 sections, 2" hyd fill pump, 380/90R46 tyres, very good condition. 51150. TA1107340.

\$495,000



FLEXI COIL 5500

Air drill, 60ft, 12" spacing, c/w double sowing kit, 350lb b/out, presswheels. 51097. TA1055134.

\$82,500

Brad Page 0428 833 193 • David Cliff 0427 859 960 • Lynton Smart 0427 859 967 • Tim Harper 0429 578 881

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DEUTZ ATK 420 2013, Air cab, 4 speed PTO, loader, bucket & forks. 3 speed power shift / power shuttle, 40 kph. HC2191. TA1122719. **\$68,000**



TAEGE AS600 Tyne drill 6mtr working width. Comes with 6mt double roller. B27. TA1121397. **\$121,000**



HARDI COMMANDER 5000 2015. 30m eagle boom. Hydraulic drive pump, axle suspension, chem induction. HC 5500 controller. HW508. TA1124461. **\$49,000**



BOBCAT TL470 Telehandler with bucket & spare hooks. HC2139. TA1121380. **\$60,000**



CLAAS ARION 430 air cab, 4 WD, 4 speed PTO, air seat, 16 x 16 hexactiv, 40 kph. HC2192. TA1115356. **\$69,000**



KUHN FC 3560 TLD mower conditioner, steel flail, 8 disc. HC2009. TA1104053. **\$36,300**



JOHN DEERE 1770 Precision planter, isobus, section control, front coulter discs. 3.5m transport. HC2006. TA1050087. **\$58,000**



MCHALE FUSION VARIO 3 combi wrapper, only 8500 bales, 2 seasons old. HC2160. TA1101894. **\$170,500**



AMAZONE ZATS PROFIS HYDRO 4200lt hydro drive Profis spreader, mudflaps & tarp. Scales & rate control. HC2100. TA1096427. **\$25,000**



CLAAS DISCO 3600FC FC front mower / conditioner. 3.4m working width. HW484. TA1106864. **\$12,000**



WELGER RP545 4 x 6, net rotor cut. Serviced ready to go. 1763.50.453. TA998754. **\$41,000**



MANITOU MLT-735-120LSU 6150 hours, 7m, 3.5 + lift, Good condition. Just been serviced. HC2103. TA1087891. **POA**



KUHN FC3525DF-FF 2020, Front linkage mower conditioner hammer flail conditioning, 8 disc 3.5 mtr working width. Little use, upgrade to roller system.. HC2184. TA1124506. **\$33,000**



VADERSTAD 400S RAPID 7400 Hectares, 5" spacings, 4m working width. Seed & fertiliser. Good condition. HW398. TA1072932. **\$99,000**



MANITOU MLT735 2008 model 120 hp, 7 mtr 3.5 ton capacity, 6 x 3 power shift. 40 kph, JSM joystick. HC2005. TA1097688. **\$85,000**

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CASE IH 4430 PATRIOT 2012, with Aim Command, 6000 litre tank, 36.5 metre 7 section boom, auto steer with a Nav controller & 372 receiver, 13.6R42 tyres, boom prime & flush, hyd. banjo fill pump, has been workshop checked & serviced. S276. TA1125054. **\$242,000**



CASE IH LB433R 2009, first used in 2011, 33,300 bales, 4x3, rotor cutter, single axle, bale skis, one owner, good condition. S277. TA1125055. **\$66,000**



JOHN DEERE 7800 1998, 520/85R38 rear & 420/85R28 front, 9900 hrs. S278. TA1125056. **\$33,000**

HAY

Kuhn FC4060TCR Mower Conditioner, 2017 build, 4m (13') cut,
Square Flex Rubber Rollers, excaellent condition **\$49,500**

SPRAYERS & SPREADERS

Hardi Commander 5030, 2011 build, 30m Eagle boom, 4 sections,
5500 Controller with JOBCOM, 540 PTO pump, Granni Pot, Filtered
fill OBHC **\$42,900**

Hardi 5033 Commander 2, 2006 build, 33m Force boom, 6 section,
Ag Leader controller, section control, Granni Pot, Banjo fill, susp. adj.
width axle on 18.4x38 tyres, avail. March 2022 **\$44,000**

TILLAGE & SEEDING

Morris 7240 Air Cart, 8000L, 2 bin, Tow between,
ground drive, monitor, auger OBC **\$44,000**
AFM Cultivator, 36', 7" spacings, Coil Harrows **\$7,700**

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MASSEY FERGUSON



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



NEW HOLLAND H8080
Windrower with 15.5ft disc mower conditioner, Mow Max front, also 25ft draper end knives and trailer. S31. TA759375. **POA**

WINDROWERS	
NEW HOLLAND SP H8080 LOW HOURS 15FT ROTARY MOWER CONDITIONER FRONT AND 25FT DRAPER FRONT ON A TRAILER	POA
TRACTORS	
MASSEY FERGUSON 5455 100 HP A/C CAB F/E LOADER.....	POA
CASE 245 MAGNUM AFS 248 H.P. DUALS ALSO LINKAGE AND PTO	POA
MASSEY FERGUSON 8260 210 HP A/C CAB FRONT END LOADER	POA
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 condition	POA
CASE MXM 175 177 HP FWA POWERSHIFT one owner	POA
MASSEY FERGUSON 6265 105hp FWA A/C Cab Burder Loader	POA
MF390 85HP Loader 4WD Shuttle Shift	POA
DEUTZ AGROTRON 90 MK3 90HP FWA A/C cab and F.E.Loader	POA
MF590 80HP, A/C cab, engine rebuilt	POA
ISEKI SX 75 A/C cab, FWA, linkage one owner	POA
MF 394-4 Orchard Tractor, 80HP, Konig A/C cab	POA
INTER 484 ROPS frame, 2WD, remotes	POA
DAVID BROWN 880 with F/E loader	POA
MASSEY FERGUSON 6150 95 HP A/C Cab Front end loader	Going through workshop
MASSEY FERGUSON 3070 95 HP A/C Cab Front end loader	Going through workshop
MOWER CONDITIONER	
MASSEY FERGUSON 1345 12 FT STEEL ROLLERS CENTRE SWING	POA
KUHN 350G 3.5 MTR steel flail conditioner, swivel hitch	POA
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 conditioner	POA
MOWERS	
TAARUP 2832F 3.2MT FRONT MOUNT DISC MOWER late model	POA
CLAAS 260 DISCO disc mower going through workshop	POA
ROUND BALER	
KRONE COMPRIMA CV 150 XC baler wrapper combo one owner low bales excellent condition.....	POA
VICON 1601 5X4 ROTOR FEED NET	POA
MCHALE V660 5X4 ROTOR FEED ONE OWNER	POA
MCHALE V640 5X4 ROTOR FEED one owner baler going through workshop.....	POA
WELGER 520 6X4 ROTOR FEED AND KNIVES GOOD BALER.....	POA
CASE 528 5X4 rotor feed net wrap and knives	POA
CASE 628 6X4 rotor feed net wrap.....	POA
JOHN DEERE 535 6X5 baler has net	POA
CLAAS 280 6x4 roto feed string and net	POA
JOHN DEERE 467 6x4 Round Baler roto feed and net	POA
CLAAS 280, 6x4 roto cut, string and net	POA
GRASSLANDS, 6x4 Silage Baler, wide pick up	POA
JD 590, 6x4 Round Baler, going through workshop	POA
SILAGE WRAPPER	
MCHALE 991 BE side load with electronic auto control and side tip off function	POA
HAY RAKES	
MASSEY FERGUSON RK 3880 10MT twin rotor rotary rake.....	POA
GENDORE 6500 6.5 twin rotor rotary rake	POA
KUHN GA 7301 7.5 mt twin rotor rotary rake.....	POA
KUHN 5.8 mt twin rotor rotary hay rake	POA
SQUARE BALERS	
MASSEY FERGUSON 2170 3x4 rotor cutter tandem axle.....	POA
MASSEY FERGUSON 190 4X4 going through workshop has 2190 crank and reduced height chamber.....	POA
NEW HOLLAND 1210 3x4 Square Bale	POA
MF 185 3x3 Square Baler	POA
CASE 8580, 4x4 Square Baler	POA
CASE 8570 3x3 Square Baler	POA
SPREADERS	
AMAZONE 1500 LINKAGE MOUNT twin spinner.....	POA

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HARDI 7036 COMMANDER
2012, Force FTZ boom
12 Month old 464 Pump
7 Section EFC Fluid system
Venturi and Banjo Fill
Full ISO
35 Litre Turbo Filler with Sotera 12v
Chemical suction pump
Stock 102751
Available March 2022
406004292. TA1110620.
\$66,000



CASE IH 8230 W/- 45' CASE 2152 FLEX FRONT PRO 700 Monitor
Separator Hours- 2100
Eng 12.7l / 516 HP with 4 Speed Trans
45' Case 2152 Flex Draper
Knife Driver Good
Drapes ok, no trailer
Seed terminator with
unit if required POA. 102726/102727.
TA1107140.
\$324,500



AMAZONE ZAM-M ULTRA
3PL Fertilizer Spreader on trailer
PTO Drive - Hopper Cover
Urea Spread to 36m
Discus 24-48
AMADOS Controller - No weigh Cells
Available Jan/Feb 2022
Stock 102733. ZAM0054497.
TA1109486.
\$22,000



MASSEY FERGUSON HESSTON 9635
2008, 2504 Engine Hours
6.6L Agco SISU 190Hp Engine
2 Range Hydrostatic Transmission
9190 Razor Bar Front
16m cutting width
Single Herringbone steel on steel
conditioner
With Front Trailer with brakes. 102650.
TA1054173.
\$110,000



AMAZONE ZAM3000 ULTRA PROFIS
2013, in 2- 600L, Ext(4200L)
Manual Hopper Cover
1000 RPM PTO
Amatron & Controller
Fertilizer weight Cels
36M Spread
Hopper Screens. 102720. TA1089888.
\$24,200



MASSEY FERGUSON 2170
2009, 8'9" x 3'9" x 2'9" Bale Size
Tyres 700/50-22 on single axle
Gazeeka moisture meter
GTA Control
41287 Bales
NOT a contractors machine
Workshop serviced. HU74119.
TA1119602.
\$71,500



HARDI 5030 COMMANDER
2006, Force FTZ boom 30 metres
Upgraded 464 Pump
8 Section EFC Fluid system
Venturi Fill
HC 5500 controller
60 Litre Chemical Hopper
As New Tyres
Available March 2022
102753. 406004487. TA1113129.
\$44,000



MILLER NITRO 4315 SP SPRAYER
2009, 315HP Mercedes Benz Engine
4128 Engine Hours
30m Mono Boom with Triple Nozzles
on 250mm spacings.
6100 Tank.
Steer ready, 3 Sensor Raven Auto High
Grani Pot, Banjo Direct Fresh water fill
pump. 102713. TA1082357.
\$115,500



HARDI NAVIGATOR 4030
2011, 2011 Hardi Navigator
4030 SPC Eagle Boom
HC5500 Spray II Controller
4 section EFC Fluid System
60 Litre Chemical Hopper
520x85R42 Tyres
363 Pump. 102762. TA1117892.
\$44,000

USED HEADERS:

Gleaner R62 (Stock 102630)\$27,500

USED BOOMSPRAYS:

Miller Nitro 4315 (Stock 102719)\$115,500
Hardi 5030 Commander V (Stock 102758)\$27,500
Hardi 7033i (Stock 102750)\$49,500

Hardi Navigator 6030 (Stock 102781)\$88,000
Hardi Commander 5030 (Stock 102780)\$38,500

MACERATOR / SUPER CONDITIONER:

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TA1098318.
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6 speed powershift
transmission
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extras. S542. TA1103555.
\$151,222



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S517. TA1099355.
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KRONE AMR320
3.22m working width
6 discs/ 2 drums
68hp requirement
3-3.5 ha/h area output.
S558. TA1105327.
\$20,955



JOHN DEERE 8700 PrecisionCut
Precision cut fairway
mower
48.3hp, 254cm cutting
width. S468. TA1062817.
\$18,990

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A/H Mario Mete 0438 389 916

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NEW HOLLAND 313 MOWER CONDITIONER Rubber roller mower conditioner, 4 meter cut. 3 meter chevron rollers, center pull, three point linkage 1000rpm pto. At our Echuca dealership. S494. TA1102279. **\$37,400**



NEW HOLLAND BC5070 Small square baler, going through workshop, well looked after baler, at our Echuca dealership ring 0354822788. S498. TA1113308. **\$35,200**



POTTINGER 771A Twin rotor rake, hyd fold & hyd width, well looked after rake, at our Echuca Dealership 0354822788. S510. TA1124620. **\$27,500**



NEW HOLLAND CR8090 CR 2012, Smarttrax, 1940e & 1264r hrs, optispread chopper, PSD, class 8, Macdon D60 40ft draper front, located at our Echuca Dealership ready to go 0354822788. S352. TA930781. **\$396,000**



CASE IH RB465 Round baler, 2016 model, 12,234 bales, standard rotor feed, drop floor, been through workshop ready to go at our Echuca dealership, 0354822788. S496. TA1113300. **\$41,800**



NEW HOLLAND BR7070 6x4 round baler, rotor feed, well presented baler, been well looked after, been thru workshop, at our Echuca dealership 0354822788. S502. TA1114841. **\$26,400**



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**

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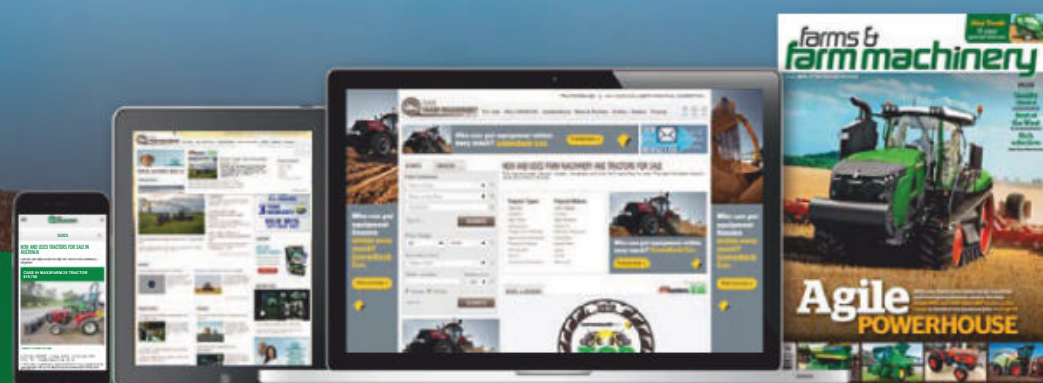
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H/D Australian made
Full gear drive, Stainless deck
75 HP gearboxes, 3pl or trailing
Sizes from 1.5 mtr to 12mtr. S364. TA1025498.

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Optional rear spinners
Sizes from 8m3 to 30m3. S365. TA1025500.

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H/D Australian build
Front or rear delivery. Sizes from 2m3 to 18m3
Optional telescopic conveyor, Optional end rotor or end spinner
Custom built to suit your requirements. S366. TA1025523.

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SAMMUT SPREADERS

H/D Australian made
Full hydraulic drive
We can custom build. Optional front feed
Optional side delivery. Chain or belt floor
Sizes from 2m3 to 30 m3. S367. TA1025524.

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Optional folding conveyor with optional length
Reduction box. S371. TA1025537.

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Gear drive
Anti-pan blades
2200mm to 3200mm. S369. TA1025532.

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560mm discs
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GASON 2120 RT
2004, Ground drive, 40/60 bin split, High capacity fan, 30.5-32 turf tyres. 6 outlet. good order ready to go., 123. NSW. DIY1123084. 0428 474 891. **\$125,000**



OTHER GREENPRO
2018, GP-1200. 6 in 1 disc seeder, .. NSW. DIY1123184. 0488 270 752. **\$9,000**



KIOTI RX8030
80 HP, 4WD Low and high range. Wet clutch. Shuttle forward and reverse. Excellent condition, suit hobby farmer. Just serviced. 340 hours, 1QP6DV. VIC. DIY1123928. 0428 953 044. **\$56,000**



ROTOWIPER WICK WIPER used rotating weedwiper - replaced belts. Traded in on a winged Redback weedwiper, .. NSW. DIY1124470. 1800 836 313. **\$3,200**



APOLLO 554 CABIN Very good condition tractor, only done 233 hours. Good cold air con. Comes with pallet forks and hay bale forks. Has all the lights to register for the road. No faults no damage, 15005635. QLD. DIY1123798. 0422 589 747. **\$29,990**



ALLIS CHALMERS G 1948, in good running order. Great collectors item, N.A. VIC. DIY1124480. 0404 556 482. **\$13,000**



KANGA 4M FOLDING RAKE KHP400 Cat 1 4m Kanga holding pasture rake harrows, NA. VIC. DIY1122927. 0417 970 179. **\$1,850**



HATZ 1D90Z 2010, new never been used, .. VIC. DIY1122461. 0400 994 079. **\$5,300**



JADAN JADSBG15 2018, ideal for any farmer, contractor or produce store handling up to 15 small square bales, G20181324. VIC. DIY1124350. 0413 309 285. **\$6,500**



JOHN DEERE 8285R 2014, in excellent condition and has been well looked after. All inspections welcome, 07865C. QLD. DIY1122832. 0419 632 965. **\$210,000**



JOHN DEERE 5100GF 2017, narrow tractor with Burder forklift, S45 SEG. SA. DIY1124309. 0411 408 358. **\$55,000**



FORD CRANE 5000 Cranvel GT articulated crane, up to 6 tonne lift, 8 speed split box, 1700 hrs, starts first time every time, excellent paint, good tyres, excellent for on the farm, very cheap compared to whats available, 375674. SA. DIY1124706. +108 8269 4483. **\$10,999**



CLAAS 260 VARIANT ROUND BALER 2005, Roto cut variety 260 model with knives drop floor net wrap or string new drive chain and bearings. Good condition app 20000 bales genuine reason for sale as no longer required please phone/text, good buy great unit priced to sell quickly, M15388. QLD. DIY1124476. 0427 041 011. **\$19,999**

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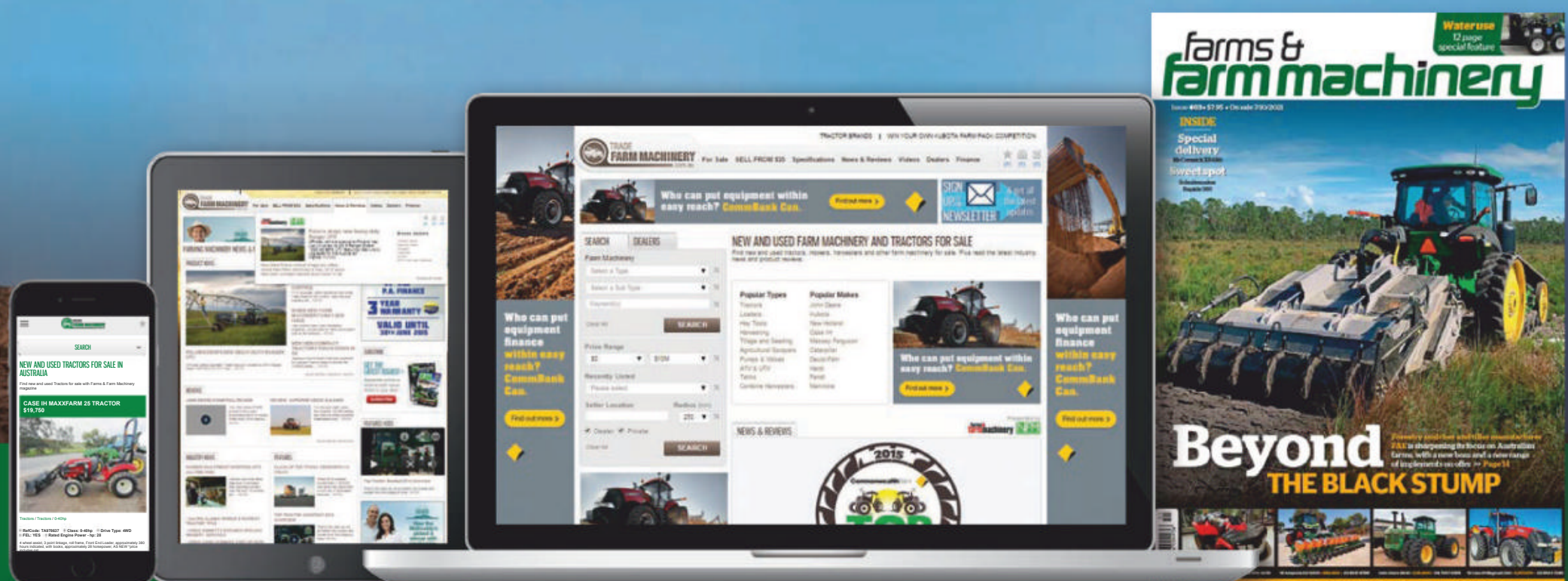
FARM MACHINERY MARKETPLACE*

BUY

More than 32,350 tractors, spreaders, harvesters, hay tools, feeders, sprayers, trailers, and attachments, and other parts and accessories currently listed for sale

SELL

Unlimited stock listings on TradeFarmMachinery.com.au for just \$360 per month



Hot DEALS

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



2004 John Deere 5320

380 engine hours - 64 HP - 540 rear PTO. Location - Northam, WA.

Just \$20,350!

Scan to view:



or call
08 6336 7780



2015 Rogator R 1300B

SP Sprayer - 120' boom @ 20" spacings. Raven Viper Pro 4. Triple X nozzle bodies. 60L scud tank, 800L fresh water tank, 6000L solution tank.

Just \$275,000!

Scan to view:



or call
08 6336 7780



2017 Bourgault 3320

60' @ 10" spacings - 5.4" press wheels - hydraulic coulters - Raycol heads with John Deere primary hose blockage monitor kit. Location - Carnamah, WA.

Just \$220,000!

Scan to view:



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08 6336 7780



2009 John Deere 630R

30' rigid platform - trailer included. Location - Cunderdin, WA.

Just \$33,000!

Scan to view:



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08 6336 7780



2005 John Deere 930D

Draper platform - top Auger - transport kit. Trailer not included. Location - Cunderdin, WA.

Just \$27,500!

Scan to view:



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08 6336 7780



2015 John Deere 8370RT

370 HP - 3842 engine hours for sale OBC. Location - Northam, WA. Track size: 625mm/25-inch. Track spacing: wide.

Just \$330,000!

Scan to view:



or call
08 6336 7780



2016 John Deere 990

Mega wide pickup - 4 feet bale width - 540 PTO - 23000 bale count. Location - Albany, WA.

Just \$72,600!

Scan to view:



or call
08 6336 7780



2000 Bourgault 8810

60' @ 12" Spacings - Single Shoot. For sale OBC. Location: Esperance, WA.

Just \$77,000!

Scan to view:



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08 6336 7780

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!



2016 Kuhn FC3560TCR
Location - Boyup Brook, WA.

**Just
\$42,350!**
Scan to view:



or call
08 6336 7780



2017 John Deere L340
Features: auto greaser, good tyres, led lights, tandem axle.

**Just
\$96,800!**
Scan to view:



or call
08 6336 7780



2015 Rogator R 1300B
SP sprayer. 120' boom @ 20" spacings. Raven Viper Pro 4 triple X nozzle bodies. 60L scud tank, 800L fresh water tank, 6000L solution tank.

**Just
\$275,000!**
Scan to view:



or call
08 6336 7780



Zurn Raps-Profi II
635R extension suits platform size: 35 feet, platform kind: rigid. Selling due to changing fronts to 40ft next season.

**Just
\$26,400!**
Scan to view:



or call
08 6336 7780



2014 John Deere 640D Comb Trailer
For sale OBC.

**Just
\$11,000!**
Scan to view:



or call
08 6336 7780



2012 Kuhn VB2190
PTO drive speed 540, bale width 1200 mm, max bale diameter 1800 mm, rear tyre cond 60%. External colour: orange.

**Just
\$27,500!**
Scan to view:



or call
08 6336 7780



2013 John Deere 640D
Features: Draper for use on combine only, Poly tine pickup reel.

**Just
\$49,500!**
Scan to view:



or call
08 6336 7780



2020 John Deere 9520R
e18 transmission, 18 F/6 R speeds with efficiency manager, 4600 CommandCenter with extended monitor, CommandCenter premium activation 3.0, 4600 processor.

**Just
\$550,000!**
Scan to view:



or call
08 6336 7780

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Hot DEALS

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



Just \$258,500!

Scan to view:



or call
08 6336 7780

2018 JCB 8330

3Pt Linkage, 3m axle spacings with mud guard extensions, 4 SCVs, PTO, John Deere guidance ready with ATU 200 installed(no screen or receiver), 540/65R38 Front tyres, 650/75R38.



Just \$154,000!

Scan to view:



or call
08 6336 7780

2012 New Holland T7.270

FWA with FE loader - 50km transmission - suspension - 3PL - 540/1000 PTO. Front tyres 25%, back tyres 70% - 230 HP - 4000 engine hours. Location - Narembeen, WA.



Just \$27,500!

Scan to view:



or call
03 9116 6773

Pottinger 771A

Pottinger 771A twin rotor rake, hyd fold & hyd width well looked after rake, at our Echuca Dealership.



Just \$31,900!

Scan to view:



or call
03 9116 6773

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 \$12,650!

Scan to view:



or call
03 9116 6773

Silvan G2 Supaflow

Orchard sprayer 2,000 LT, Bravo 300 auto rate controller, good working condition. At our Cobram Dealership.



Just \$26,400!

Scan to view:



or call
03 9116 6773

New Holland BR7070 Superfeed

6x4 round baler, rotor feed, well presented baler, been well looked after, been thru workshop, at our Echuca dealership.



Just \$68,200!

Scan to view:



or call
03 9116 6773

New Holland 316

Steel Roller Mower Conditioner, 5 meter cut, Ex demo machine, done little work, steel rollers, ready to go. At our Echuca Dealership.



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.

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 \$41,800!

Scan to view:



or call
03 9116 6773

Case IH RB465

Round baler, 2016 model, 12,234 bales, standard rotor feed, drop floor, been through workshop ready to go. At our Echuca Dealership.



Just \$37,400!

Scan to view:



or call
03 9116 6773

New Holland 313 Mower Conditioner

Rubber Roller Mower Conditioner, 4 meter cut. 3 meter chevron rollers, center pull, three point linkage 1000rpm pto. At our Echuca Dealership.



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. At our Echuca Dealership.



Just \$396,000!

Scan to view:



or call
03 9116 6773

2012 New Holland CR8090 CR

1940 engine & 1264 rotor hours, 2012 build, Class 8 machine. 10.3l FPT engine rated at 449hp (490hp max).



Just \$63,800!

Scan to view:



or call
03 9116 6773

GVM Prowler 8709T

Spreader truck.



Just \$55,000!

Scan to view:



or call
08 7007 6556

Shelbourne Reynolds CVS32

Stipper platform 32 Ft. Good condition.



Just \$48,400!

Scan to view:



or call
08 7007 6556

Hardi 7030 Commander

7000 litre with 30 meter boom. boom has been through workshop recently, hydraulic suspension, four sections and hydraulic driven pump.



Just \$90,000!

Scan to view:



or call
08 7007 6556

2008 John Deere 6230 Premium

With 3000hrs front end loader with pallet forks and bucket included. Front tyre size 340/35R 24. Tread 75%.

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.



TRADE

FARM MACHINERY

THE TRACTOR YOU WANT IS NOW EASIER TO FIND

TradeFarmMachinery.com.au 83

Hot DEALS

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



2015 Bredal K85

Selling on-behalf of customer.

**Just
\$99,000!**

Scan to view:



or call
08 7007 6556



Howard Condor

Clearance. Howard Condor mower. \$18,500 inc GST. Located at Roseworthy.

**Just
\$18,500!**

Scan to view:



or call
08 7007 6556



Hardi Presidio

With auto section rate control, 1024 hours. Located in Parndana (KI), SA.

**Just
\$143,000!**

Scan to view:



or call
08 7007 6556



Hardi Saritor

520/85R46 tyres 80%, 1854 hours, HC 9500 AG Leader controller, 42.5 aluminium Pommier Boom 142 foot, Ace 650 litre per min run dry pump. Full service history.

**Just
\$298,000!**

Scan to view:



or call
08 7007 6556



2010 John Deere 9200

Approximately 6300 hours. 20.8R42 duals, hydraulic PTO. Estimated to be available April 2022.

**Just
\$82,500!**

Scan to view:



or call
08 7007 6556



2017 Hardi Saritor 5500 II

1,750 hours, 5,500L tank, 46.5m (153')/48.5m (160') aluminium boom, 8 sections, triple nozzle bodies, auto boom height control.

**Just
\$363,000!**

Scan to view:



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03 8547 8800



2016 John Deere 946

Centre pivot rotary mower conditioner, 4 metre cut, tri-lobe conditioner rollers, rockshaft swivel hitch, hydraulic tilt control. Good condition and ready to go.

**Just
\$41,800!**

Scan to view:



or call
03 8547 8800



2007 John Deere 7530 Premium

180 engine HP -7163 engine hours -MFWD with triple link front suspension -Auto quad plus eco 20/20 trans. Linkage and cab suspension.

**Just
\$85,000!**

Scan to view:



or call
03 8547 8800

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 \$55,000!

Scan to view:



or call
03 8547 8800

2008 Goldacres 6530

6500L 30M dual line Goldacres sprayer, Raven controller, CIH, TC, 400L FW, 20.8x38 tyres. Air bags, MG, direct inj tank, Hyd drive.



Just \$132,000!

Scan to view:



or call
03 8547 8800

2012 Bourgault 3320-80

80ft bar, 15" spacings, prior to QDA model, double shoot, Rootboot paired row points, front row coulters, setup for tow between/leading cart.



Just \$55,000!

Scan to view:



or call
03 8547 8800

2006 Morris Concept 2000

Currently on 15" spacing have enough spare tines to convert back to 12" spacing, with ag-master press wheels.



Just \$46,200!

Scan to view:



or call
03 8547 8800

2016 John Deere 946

Centre pivot rotary mower conditioner, 4 metre cut, Tri-Lobe conditioner rollers, Rockshaft swivel hitch, hydraulic tilt control. Good condition.



Just \$137,500!

Scan to view:



or call
03 8547 8800

Krone BP 1290HDP

6 string Baler with 38411 bales non chopper with soft start, krone Auto grease system, croplands applicator, gazeeka moisture meter, scales.



Just \$88,000!

Scan to view:



or call
03 8547 8800

2011 Midwest 45'

Crop hawk 45ft. Immaculate condition. Sold with comb trailer. Primary sales knife guards and lifters. Comes with top cross auger (currently not fitted). Machine always serviced.



Just \$33,000!

Scan to view:



or call
03 8547 8800

2008 Case IH DC162

Mower conditioner. Steel rollers, 4.8m cut, 12 Disc, 3PL hitch, 21 spline PTO. Great condition, Just arrived.



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.

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 \$50,000!

Scan to view:



or call
03 8547 8800

2013 New Holland T4060F

100HP T4060F MFWD cab tractor, 280/70R20 front tyres 75%, 420/70R28 rear tyres 75%, front weights, window tint, seal guards.



Just \$154,000!

Scan to view:



or call
03 8547 8800

2017 Krone BP 1290HDP

First used 2018, 8 string, non chopper, soft start, 620/55R26.5 tyres, on board air system, auto greaser & auto oiler, Gazeeka moisture sensor & bale marker.



Just \$60,500!

Scan to view:



or call
03 8547 8800

Hardi 4030

4000L Hardi Navigator, 2018, Eagle Steel boom, Granni Pot, 5500 Controller. For more information contact Emmetts Rupanyup Dealership.



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 \$44,000!

Scan to view:



or call
03 8547 8800

2004 Goldacres 6000x30

Dual boom, 450 Raven controller, CIH, TC, 3Mtr tracks, hyd dr.



Just \$24,200!

Scan to view:



or call
03 9116 6772

Krone Swadro 700

Used Krone Swadro 700 twin rotor rake. 6.8m working width, recently traded due to upgrade.



Just \$24,200!

Scan to view:



or call
03 9116 6772

Lely Lotus 900

Used. This machine has been very well looked after, always shedded and serviced accordingly. Trailed, 9m working width, eight rotors.



Just \$15,400!

Scan to view:



or call
03 9116 6772

Yeomans 5 Tyne

Used Yeomans 5 tyne ripper with roller. In good condition, comes with spare points. Recently traded as machine is no longer required.

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 \$8,800!

Scan to view:



or call
03 9116 6772

Vermeer 504I

Selling machine in as is where is condition. Was working until the day the upgraded baler arrived. Only traded as owner moved into a newer machine.



Just \$7,150!

Scan to view:



or call
03 9116 6772

Boomerang MK 3

Used Boomerang bale feedout wagon. Photos are in as traded condition, will be workshop checked prior to sale.



Just \$49,500!

Scan to view:



or call
03 9116 6772

Keenan 12T Orbital Spreader

Photos are in as traded condition, will be workshop checked prior to sale.



Just \$19,800!

Scan to view:



or call
03 9116 6772

Lely Lotus 675 Tedder

Extremely well maintained and tidy machine. Looks nearly new.



Just \$15,400!

Scan to view:



or call
03 9116 6772

Kuhn GF6502 Tedder

Tidy machine, in good working condition. Well looked after unit.



Just \$7,150!

Scan to view:



or call
03 9116 6772

Claas 540H Tedder

5.4m working width, in good working condition, was being used up until the day it was traded.



Just \$26,400!

Scan to view:



or call
03 9116 6772

Tanco 1400 Wrapper

Selling on consignment as owner is now moving to pit silage.



Just \$15,400!

Scan to view:



or call
03 9116 6772

Kuhn Venta TF 702

Front linkage air seed box, 700ltr capacity. Skeleton wheel metering system, can be adjusted for different working widths.

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 \$9,900!

Scan to view:



or call
03 9116 6772

Amazona ZA-M 1501 Spreader

1500L hopper. Twin stainless spreading discs. Individual hydraulic shutter control. One piece folding hopper cover. Range of spreading widths - Max 36 metres. Excellent condition.



Just \$41,800!

Scan to view:



or call
03 9116 6772

2019 Pottinger Top 962C

Twin rotor rake 8.9m to 9.6m working width. Good working order, shedded when not in use, well maintained and serviced. Only traded as upgraded to quad rotor.



Just \$82,500!

Scan to view:



or call
03 9116 6772

2017 Kuhn GA 13131

Used 2017 Kuhn GA 13131 quad rotor rake. Extremely well maintained, always shedded, serviced and used by quality operators.



Just \$52,800!

Scan to view:



or call
03 9116 6772

McCormick S-MAX 90 ROPS

With loader and 4 in 1 bucket. In stock.



Just \$95,000!

Scan to view:



or call
03 9116 6772

Kioti PX1153

Boasting a 115Hp engine, bigger hydraulic pumps, bigger radial tyres, delux air seat and electronic rear linkage with greater lifting capacity are just some of the features.



Just \$84,000!

Scan to view:



or call
03 9116 6772

Kioti PX1052

105hp diesel engine. Power forward / reverse shuttle. 32 x 32 transmission. Push button hi / low Powershift. European designed wet clutch. 4WD with diff lock. Power steering.



Just \$24,244!

Scan to view:



or call
03 9116 6772

Aitchison 3018C

Overall width - 3320mm (10'11"). Overall height -1550mm (5'0"). Overall length - 2250mm (7'5"). Weight empty - 920kg.



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.

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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Lely Hibiscus 915 CD Vario
Pull type twin rotor rake. Twin rotors, cam track, tandem-axle wheel, steering device, hydraulic systems.

Just \$31,900!
Scan to view:



or call
03 9116 6772



Maschio Vito 400
4m Power Harrow with PJ Green seedbox. In good working condition, only traded as previous owner has upgraded machine.

Just \$27,500!
Scan to view:



or call
03 9116 6772



Sitrex QR10
Carted V style wheel rake. Compact, manoeuvrable and stable both in working position and transport.

Just \$14,300!
Scan to view:



or call
03 9116 6772



Lely Cosmix M
A one-tonne hopper on a trailer that can be towed to wherever the calves are and left in the paddock.

Just \$14,300!
Scan to view:



or call
03 9116 6772



2018 Macdon FD140
Flex Draper 40 foot front, top x auger, it has new plastic pan. new SS feeder floor. New RTD chain. New knife for 21. New knife guards for 21.

Just \$159,500!
Scan to view:



or call
02 9064 7556



2010 Case IH Puma 155
Loader, 3450hrs, 520/70r38 rear, 420/70r28 front tyres 65%. Front fenders, wide rear fenders, Tx 4400 UHF, radio, training seat, 540/750/1000 pto, 3 remotes , linkage.

Just \$110,000!
Scan to view:



or call
02 9064 7556



2017 Case IH 7240
Wheat Combine,1220 rotor hours and 1550 engine. 620/70 R42 front duals. Macdon D65 40 foot front with Cross auger and trailer.

Just \$550,000!
Scan to view:



or call
02 9064 7556



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

Just \$60,000!
Scan to view:



or call
02 9064 7556

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Hot DEALS

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



Just \$99,000!

Scan to view:



or call
02 9064 7556

2010 Case IH Puma 165 CVT

6500 hours, 600/65R28 front @ 90%, 650/65R42 rear @ 90%, front fenders, light bar, beacon, front suspension, cab suspension, 540/540E/1000/1000E PTO.



Just \$209,000!

Scan to view:



or call
02 9064 7556

2013 Case IH Magnum 370 CVT

5000est HRS, dual 480/80R50 rear, 480/70R34 fronts, 50 kmh CVT transmission, 540/1000 pto, linkage and quick hitch, 4 rear remotes.



Just \$102,300!

Scan to view:



or call
02 9064 7556

2016 JCB Loadall 531-70 Agri Super

Agri Super telehandler, 2,974 hrs, 130 HP engine, 6 speed transmission -40 KPH, 400/80r24 tyres, 2 cube bucket and pallet forks, A/C, AM/FM radio.



Just \$13,200!

Scan to view:



or call
02 9064 7556

1989 Ursus 3512

Approx 50 horsepower. Owned since new and regularly serviced. Has done 1985 hours. Right rear tyre has been replaced, front tyres worn.



Just \$250,000!

Scan to view:



or call
02 9064 7556

2015 New Holland T8.435 T3435

1400 hours, front linkage high spec cabin. Steer ready, Intelliview 4 screen, 5 rear remotes with joystick, rear linkage with quick hitch.



Just \$110,000!

Scan to view:



or call
02 9064 7556

2017 Dieci Agri Plus 40.7

Complete with GP bucket and pallet forks. 1000 engine hours, 4 speed powershift, FPT diesel engine. A/C cabin. Extra lighting UHF.



Just \$181,500!

Scan to view:



or call
02 9064 7556

2012 Flexi Coil PD5700/3850

Parallelogram precision hoe drill 60' (18.3mt) width in 5 sections 12" spacings on 3 ranks, 5.6mt transport width 60 row units - double shoot opener.



Just \$28,000!

Scan to view:



or call
03 6111 4727

2014 New Holland RB150

Cropcutter round baler with knives, hydraulic drop floor, in good condition & ready to go. Located in Longford Tasmania.

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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John Shearer
John Shearer 24 run seed drill raised seed box, direct drill points 4 rank finger tyne harrow.

Just \$12,000!

Scan to view:



or call
03 6111 4727



Fiat 80-90
MFWD cab tractor, 80hp 4cyl engine, single rear remotes, some rust.

Just \$14,000!

Scan to view:



or call
03 6111 4727



2017 Kubota M100GX
4457 hrs, 100HP. Intelli-Shift Transmission 32 x 32. PTO 540/1000 speeds. 3PL lift capacity 4,285kg.

Just \$59,990!

Scan to view:



or call
08 7007 6557



2020 Digga BR-000416
Cleana bucket broom 1800mm. Skid steer ready.

Just \$6,055!

Scan to view:



or call
08 7007 6557



2004 Caterpillar 226 Skid Steer
2826 hrs. 67 horsepower. 4 in 1 bucket.

Just \$40,000!

Scan to view:



or call
08 7007 6557



2010 Kubota M8540
4424 hrs. KBF3000 forklift attachment. Engine 85.5 HP 4x4 MFWD 4WD. Transmission: Hydraulic-Shuttle 18 x 18. Creeper - low - high gearing.

Just \$51,990!

Scan to view:



or call
08 7007 6557



2020 Case IH Farmall 105C
3.4L FPT engine 107 HP. PTO 91 HP. 24 x 24 power shuttle Hi Lo transmission. hydraulic main pump flow 64LPM. Rear remotes x 2.

Just \$74,900!

Scan to view:



or call
08 7007 6557



2021 Case IH Farmall 50 B
2.5 litre 4 cylinder diesel engine 50hp. 3 point linkage 1252kg capacity. Mechanical transmission.

Just \$31,000!

Scan to view:



or call
08 7007 6557

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Hot DEALS

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**Just
\$110,000!**

Scan to view:



or call
03 8547 8801

2007 McCormick MTX200

4400 hours, FEL with bucket & hay forks, Trimble autosteer, linkage, near new tyres all around. Located in Swan Hill, selling on behalf of customer.



**Just
\$302,500!**

Scan to view:



or call
03 8547 8801

Case IH 8230 2012 Model

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



**Just
\$357,500!**

Scan to view:



or call
03 8547 8801

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
\$71,500!**

Scan to view:



or call
03 8547 8801

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
\$313,500!**

Scan to view:



or call
03 8547 8801

2015 Case IH 7140

Rice Combine Harvester, 1380 rotor hrs, small tube rotor for capacity in rice but also performs well in cereals, used in cereals, 900/60R32 tyres, 4WD mudhogs.



**Just
\$181,500!**

Scan to view:



or call
03 8547 8801

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
\$33,000!**

Scan to view:



or call
03 8547 8801

New Holland T4050F

A/C cab tractor, 95 HP engine, 82HP PTO, 16 speed power shuttle, 3 rear remotes, 4WD. Narrow tractor, good tread tyres. Air seat, UHF, beacon.



**Just
\$385,000!**

Scan to view:



or call
03 8547 8801

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.

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!



2014 New Holland T5.105
Hours: 3100, HP 105, front end loader bucket and forks.

**Just
\$83,050!**
Scan to view:



or call
03 9116 6771



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
\$82,500!**
Scan to view:



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2018 Case IH Puma 195
FWA/4WD, cab-tractor/implements, Hours: 4046, hp 195, VIN/Serial #: ZGBH50693, front tyre size: 600/65R26 front tyre %: 40, rear tyre size: 650/65R52 rear tyre %: 50.

**Just
\$145,200!**
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2004 Case IH MXM190
FWA/4WD, cab-tractor/loader. Hours: 2456, hp 190, VIN/Serial #: ACM230466, front tyre size: 600/65R28 front tyre %: 80, rear tyre size: 650/75R42, rear tyre %: 80.

**Just
\$110,000!**
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2018 Krone Comprima V150 XC
Round baler. Bales: 4500, net wrap, like new. Located Trafalgar.

**Just
\$59,500!**
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Bogballe EXW 1000
3pl Bogballe weight cell spreader. Located Trafalgar.

**Just
\$11,000!**
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2008 Vicon RV2160
Round baler/wrapper bale pack. Bales: 55000. Located Trafalgar.

**Just
\$38,900!**
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2010 Kuhn VBP 2160
Round baler/wrapper bale pack. Bales: 9500. Located Trafalgar.

**Just
\$73,700!**
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Hot DEALS

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2012 Claas Variant 385
Round baler, 18000 bales. Located Trafalgar.

**Just
\$27,500!**
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2003 Gendore T1400SF
2003 gendered T1400SF, bale wagon/feedout, VIN/Serial #: 2140.

**Just
\$18,700!**
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2004 Case IH CVX120
CVT Vario transmission 40k, front axle & cab suspension. electric remotes, Challenge 4121 front end loader with 3rd function.

**Just
\$71,500!**
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Vicon RV1601
Round baler/wrapper combination paddock ready. Located Trafalgar.

**Just
\$55,000!**
Scan to view:



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Vicon RV5116
Round baler. Done 11,196 bales. New chain and drive sprockets. Full workshop service. Please call for more information.

**Just
\$42,350!**
Scan to view:



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Kubota ZD331
Diesel engine, 2010hrs, 60 fabricated deck. Workshop checked.

**Just
\$16,000!**
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or call
03 9116 6686



Cub Cadet 2042
Mower in good working order, has been serviced and checked in our workshop. Twin cam 19hp Kohler motor with 42inch deck.

**Just
\$3,500!**
Scan to view:



or call
03 9116 6686



Agrowplow 16 Run
Drill

**Just
\$16,500!**
Scan to view:



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Hot DEALS

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



Vicon RV5116
Round Baler. Done 11,196 bales. New chain and drive sprockets. Full workshop service.

Just \$42,350!
Scan to view:



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03 9116 6686



2009 Excel Stubble Warrior
2009 Excel Stubble Warrior, 300mm spacing, simplicity air kit to suit tow between bin, very good condition, located Bordertown.

Just \$105,490!
Scan to view:



or call
08 7007 6558



New Holland 1431
New Holland 1431 disc mower 4m cut with conditioner rollers. comes with spare knives and clutches. Located Wickham Flower Bordertown.

Just \$29,700!
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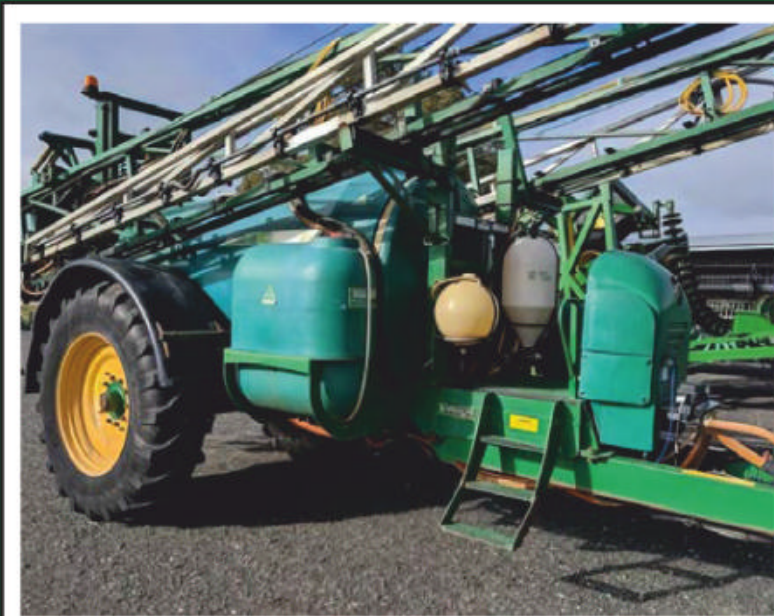


John Deere S690
Gen 3 2630 display, 3230 engine hours & 1881 rotor hours, UHF & CD player, 620 75R26 rear wheels & 520 85R42 dual front wheels, advanced Powercast tailboard, tier 2 engine.

Call for pricing
Scan to view:



or call
08 7007 6558



2004 Goldacres 5030
Trailed sprayer, 30m boom, 5000L tank, pump, 60L hopper and transcal, 450 controller, 2-TS system available but not in use, located Bordertown.

Just \$31,900!
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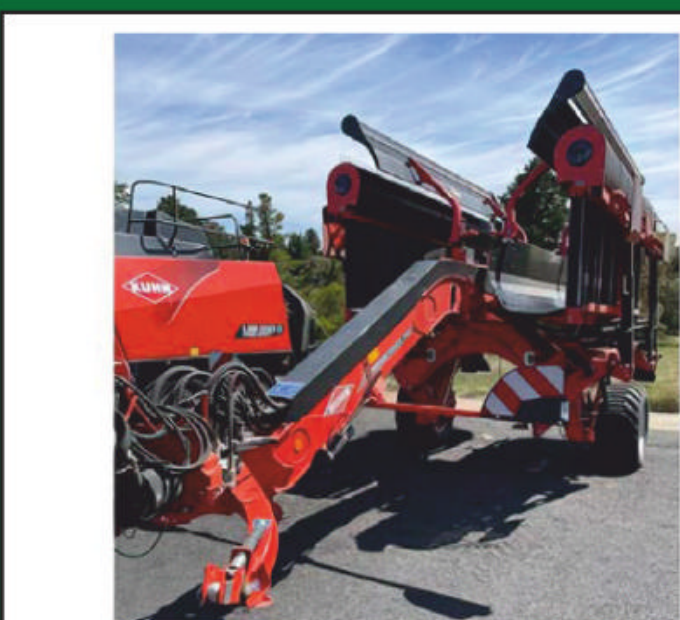


Kuhn LSB 1290D
Located Naracoorte, Kuhn LSB 1290D square baler.

Just \$82,500!
Scan to view:



or call
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Kuhn Merge Maxx 950
Excellent condition, 9.5M , for more information contact Naracoorte.

Call for pricing
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2009 Excel Stubble Warrior
300mm spacing, simplicity air kit to suit tow between bin, very good condition, located Bordertown.

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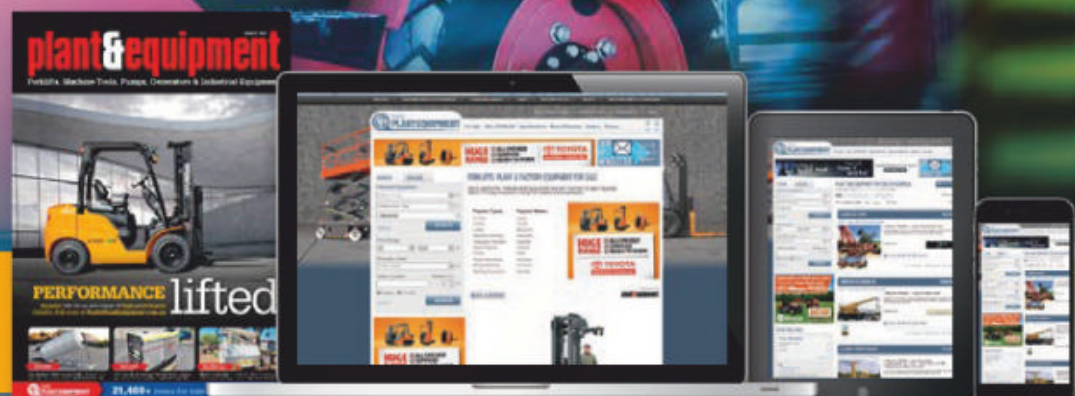
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Deere hunter

Adding parts for **John Deere construction equipment** to the range is a change for **Phil Hunt Parts**, but the traditions of solid customer service are staying strong into the next generation.

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\$8,000

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ACQUISITION

Battery boost

JT Energy Systems acquires stake in Novum

JT Energy Systems, a joint venture between Jungheinrich and Triathlon Holding GmbH, has acquired a stake in the Dresden-based AI company and battery specialist Novum.

German materials handling and battery manufacturing company Jungheinrich has offices in Adelaide, Melbourne, Sydney and Brisbane, while Triathlon launched its battery business in Australia in 2020.

As part of their cooperation, the partners are jointly extending the service life of lithium-ion batteries. The use of AI-based analysis tools makes used vehicle batteries fit for their second and third lifetimes; extending their sustainability.

"Lithium-ion batteries often last longer than the vehicles in which they are used," Reinhild Kühne, managing director of JT Energy Systems, says.

"In the future, we will be in an even better position to exploit the battery's full potential in order to reuse it meaningfully in a second and third life."

For this purpose, Novum's artificial intelligence-based test systems will analyse the condition of built lithium-ion batteries down to the cell level.

"We know exactly how high the remaining capacity of a battery is after only 90 seconds," explained Mandy Schipke, managing director of Novum.

"This allows us to calculate how long the respective battery can still be used in different application scenarios. Experience has shown that, even in many previously discarded batteries, there are still cells that are good and safe for further use."

For this purpose, after an initial examination at module level, another test is carried out at cell level. Based on this analysis, the cells are categorised into quality classes according to their condition. Fully intact cells can be reassembled into vehicle batteries that are offered as low-cost used batteries for renewed use in the vehicle.

Less efficient cells are used in stationary batteries and large-scale storage systems. In the end, only a very small proportion of used cells that have already reached their actual end of life and can no longer be used for any other purpose need to be recycled.

"This additional station in the life cycle makes lithium-ion batteries much more sustainable and ecological overall," Kühne emphasises.

"Novum's globally unique expertise in this area was one of the key reasons for our strategic investment in the experienced AI company."

The new test systems can be applied to all battery types and are therefore particularly versatile and scalable.

"The artificial intelligence learns independently how to handle new battery types," Schipke explains.

"We also get maximum flexibility from a patented measurement method with which we do not need any prior information about the battery. We can even classify batteries from accident vehicles where the battery management

AI-based analysis tools will extend the service life of lithium-ion batteries

system can no longer be accessed and safely reuse them in the sense of a resource-saving recycling economy. Until now, such batteries always had to be disposed of completely."

The test data collected by the system is stored in a cloud. With each additional data set, Novum's artificial intelligence gains in information quality. The cloud connection will also enable new services in the future.

For example, if the Jungheinrich service connects to the cloud, it can carry out battery analyses directly at the customer's premises and decide whether the battery needs to be replaced or not. All that is needed is a small, portable service device. It also makes it possible to determine the residual value of used batteries. **fm**



DISTRIBUTION

Strong and reliable

A NSW-based steel and rubber company benefits from TMHA forklifts

Andromeda Industries, based just outside of Tamworth, recently expanded its fleet of Toyota forklifts to three with the addition of an 8-Series 62-8FD30 three-tonne diesel forklift.

Andromeda Industries director and owner Raymond McLaren relies on his fleet of Toyota forklifts to ensure his warehouse runs smoothly

Andromeda Industries director and owner Raymond McLaren bought his first Toyota forklift approximately 20 years ago.

"They're just so smooth. I'm an engineer and I like fine things as well, and the Toyota forklift is a very resolved design, everything seems to be right about it," McLaren says.

"It's quiet, it's smooth, it works properly, all the gear ratios seem to be right, it travels fast enough, slow enough, the hydraulic system has been well resolved."

Andromeda Industries deals with not only steel cables and rubber matting, but also specialty jobs hauling particularly expensive equipment.

"I drive [the forklifts] myself," McLaren says.

"I have had to reassemble some very expensive astronomical equipment recently, including a 400kg glass mirror worth over a million dollars, and I had to drive one of the forklifts myself. I trust these things; they do everything right." **fm**

Any new machines that are brought in are quickly scoured for parts
Inset: Brendan Hunt



PARTS

Deere hunter

Adding parts for John Deere construction equipment to the range is a change for Phil Hunt Parts, but the traditions of solid customer service are staying strong into the next generation



It's not lost on Phil Hunt Parts managing director Brendan Hunt that the company he manages is a generational business.

"Very often these days I'm finding the 'old man' started dealing with the father of the family - and today I'm dealing with their sons," he says.

"The blokes my old man started dealing with in the early 90s, I'm dealing with their kids now, and obviously I'm second generation as well."

But, as Hunt explains, it's something that goes with the territory of being Australia's sole supplier of second-hand parts for Allis Chalmers, Fiat Allis and John Deere Construction Equipment - a loyal customer base he's grateful for.

"We've carved ourselves a bit of a niche for machines that aren't overly popular across the contractor sector, we leave the Caterpillar and Komatsu blokes to do their own thing" he says.

"If they think old gear they think of us first, because we really are the only ones left who keep anything for them, and can get blokes going again."

The company got its start when Phil placed an advertisement in *The Land* looking for parts for a 1940s-era HD7 Allis Chalmers dozer - after failing to find them anywhere - only to get several calls from fellow farmers looking for the same type of parts - and so the seed was sown that a parts business may be required.

And while Allis Chalmers ceased production in 1974, there are still plenty of farmers in that same situation - seeking parts for trusted equipment.

"Allis Chalmers obviously started in the US, but having bought out a host of competitors over the

years, we have so much stock now, we are actually exporting new and used parts back to the US, where they were originally manufactured," Hunt says.

Hunt also wrecks Fiat earthmoving and agricultural equipment, servicing the operating equipment and importing parts from Europe on a weekly basis.

"The Fiat blokes are Fiat through and through, and the fact we stock such a huge range of new and used Fiat parts these days keeps us very busy," he says.

"We are importing new parts regularly, we might bring in half a million dollars in new parts a year, and we're also wrecking, to give our customers a good used option on some of the more expensive items."

With one eye to the future, Brendan has expanded the company's product line-up to now include new and used parts to suit John Deere construction equipment.

"In the past five or six years we've started dismantling John Deere graders, dozers, loaders and scrapers," he said.

"We are the only ones in Australia wrecking John Deere Construction Equipment and we are very, very good at it these days," he says.

With a total stock inventory of more than 80,000 new parts in its database, multiple sheds and a yard full of used parts, Hunt makes sure his customers' spare parts needs are always met.

"We try to keep enough fast-moving parts and filter kits on the shelf, to cater for 20-30 machines at any one time," he explains.

"There's probably close to 50 John Deere machines, John Deere graders in particular, dismantled in the yard, so we're trying to keep a balance of new and used stock for our customers," he says.

"We're going pretty hard at the new and used side of John Deere in particular and I would say that we are stocking most things these days - we carry large amounts of engine rebuild parts and blade and circle hardware, year round."

Hunt adds that, from its base in Tamworth, Phil Hunt Parts can access a large number of freight providers to ensure that the spare parts get out to buyers as quickly as possible.

"There's not a state or territory we don't cover and we ship worldwide. Every day there is a shipment going overseas somewhere," he says.

The Tamworth base not only boasts a yard full of used dismantling machines but also features an engineering workshop, used for repairing and manufacturing parts that can't be procured, and a sandblasting cabinet used for refurbishing used parts to a new standard.

Paramount to the success of Phil Hunt Parts is the dedicated staff, with over 75 years' experience in the earthmoving spare parts business.

"We're a team of six and I'm fortunate to have as many good people around me as I do, with serious experience in the industry," Brendan says.

"We've got years on years of experience there, so when our customers phone, often we're in front of what they require and can get things moving for them ASAP."



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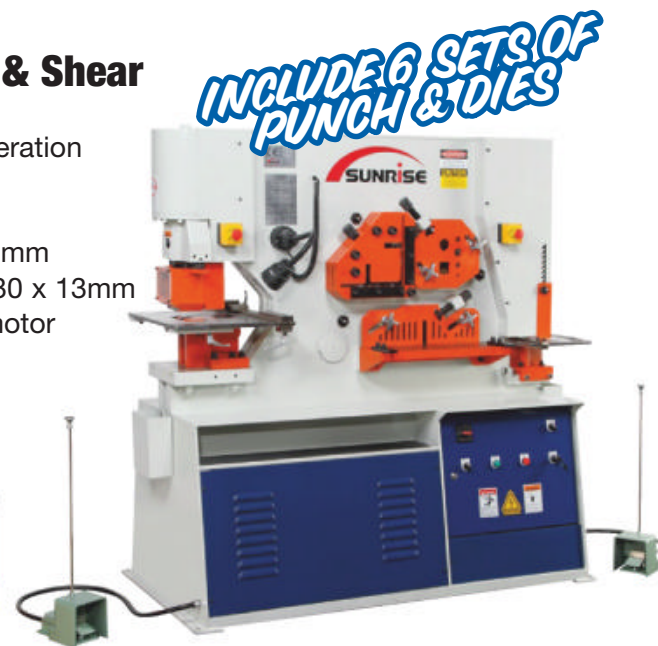
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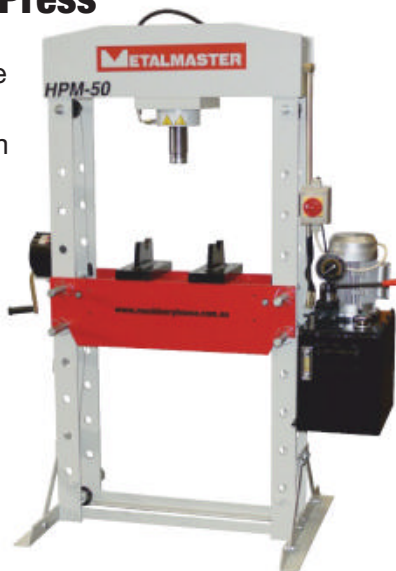
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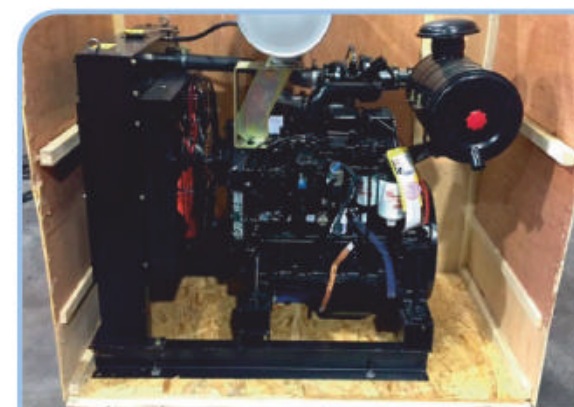
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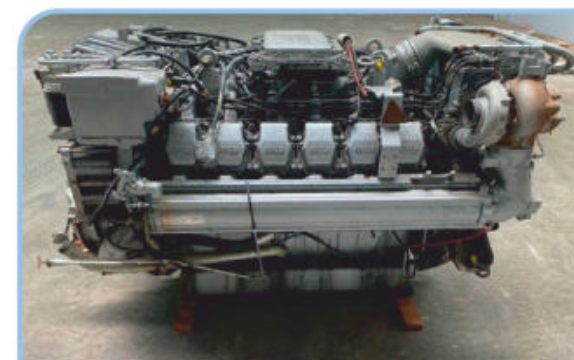
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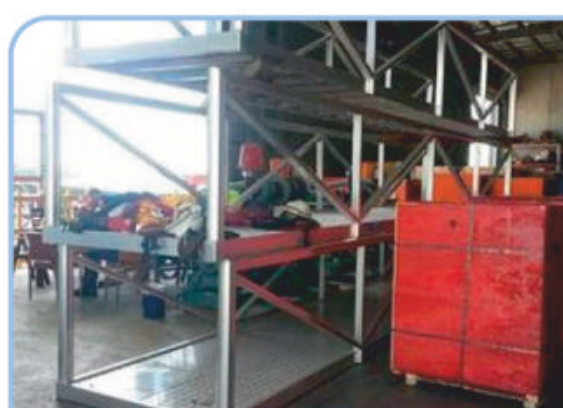
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POA



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POA



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Ag-Pride Australia Pty Ltd (NSW)	33
All Diesels (QLD)	39
Antonio Carraro Oceania Pty Ltd (NSW)	11
Brisbane Mini Excavators (QLD)	59
BYPY Transmissions (VIC)	63



Intersales Temora (NSW)	70
Lyndoch Motors (SA)	72
Rocky River Ag Services (SA)	71
TTMI (VIC)	69

Castrol Australia (NSW)	2
Claas Harvest Centre Colac (VIC)	71
Cobram Farm Equipment (VIC)	72
Coolamon (NSW)	13
Croplands Equipment Pty Ltd (SA)	21, 61
Daken ASV (NSW)	3, 12

Dieci Australia (NSW)	46, 116
Diesel Dirt & Turf Expo (NSW)	47
Echuca Rural (VIC)	74
EL-Gra Engineering (NSW)	35
Ennor Engineering(NSW)	52
FAE Australia Pacific Pty Ltd (VIC)	31
Farmgard Pty Ltd (VIC)	55
G & J East Kadina (SA)	73
Goldacres Holdings Pty Ltd (VIC)	19
Grainrite (VIC)	62
Greg Allan Farm Machinery (VIC)	25
Hardi Australia Pty Ltd (SA)	17
ifm effector Pty Ltd (VIC)	27
Inlon Pty Ltd (NSW)	8, 10
Jadan Enterprises (NSW)	53
JNR Engineering (VIC)	45
Loxton Engineering Pty Ltd (SA)	72
Makin Traks Construction Equipment Solutions (QLD)	37
Massaro Motors (VIC)	73
Muller Fabrications (QLD)	60
Munro Engineers (VIC)	49

Powerace Pty Ltd (WA)	63
Private Advertising Coupon	113
Rata Industries Group Limited (NSW)	5
Rebel Equipment (NSW)	62
Robinsons of Bookham (NSW)	115
Rural Wrecking Co. (NSW)	68
Sammut Agricultural Machinery Pty Ltd (NSW)	75
Shell (VIC)	9
UHI Machinery (NSW)	66
Veldonas (VIC)	64, 65
Vin Rowe Farm Machinery (VIC)	57
W & P Pumps (VIC)	51
WA Farmers (WA)	41
Wrights Tractor Sales & Service (SA)	67



A One Lift Truck Services (NSW)	102
---------------------------------------	-----

AFF Equipment Pty Ltd (VIC)	111
Allis Chalmers Australia (NSW)	111

Diesel Engines Pty Ltd (QLD)	107
Forklift Traders (NSW)	109
Formidable Forklifts Pty Ltd (VIC)	100
FW & RB Crighton Pty Ltd (NSW)	103
Hare & Forbes (Sydney) (NSW)	101
Hi-Reach Rentals Australia Pty Ltd (QLD)	106
LK Diesel Service Pty Ltd (VIC)	104
Phil Hunt Parts (NSW)	111

PR Power Pty Ltd (WA)	105
Price & Speed P/L (NSW)	110



Thomas Manufacturing (QLD)	108
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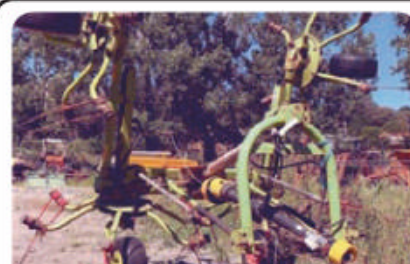
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TA1086292. POA



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POA



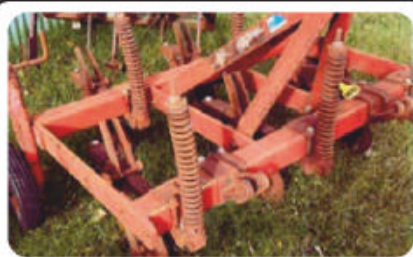
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POA



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BAKER BOOT WITH COULTERS
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AMD COULTERS



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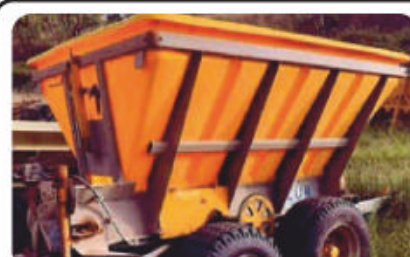
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TA1107989. POA



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Gibbons Rawlings 28 plate

SCARIFIERS & TILLERS

Ferguson scarifiers 3PL
19 tyne Bagshaw scarifier towable

SHEEP AND CATTLE

Feeders (hay & grain)
Cattle Scales

Feedout bins and trailers.
Shearing plants, grinders, lamb cradles, handlers,
wool presses, bail heads, crushes, wool tables, hyd
woolpress.

SLASHERS

8' slasher 3PL (superior)
2.3 high body Nobili mulcher

TRAILERS

HYD Tipping 10' x 6'
Freighter 4 wheel trailer
Tipping trailer 8' x 6' From \$975

TRACTORS

Ford 3000, 45hp, 3PL, P-Steer. FE Loader.
Fergie TEA20 petrol

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- Max Capacity: 3,000 kg
- Max Lifting Height: 6.35 m
- Max Power: 98 hp (73.4 kW)
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Designed specifically to meet the needs of the Australian poultry industry, the Poultry Pro is built tough and reliable for the harshest conditions. With a specially designed air filter system, a rollover boomhead for efficient bucket emptying, LED lights designed to avoid startling poultry, and a number of additional features, the Dieci Poultry Pro sets the standard for reliability, safety and operator comfort for these demanding work environments.

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2,500 kg
5.78 m

AGRI FARMER

3,000 kg
6.35 - 8.70 m

AGRI PLUS

4,000 kg
7.0 m

AGRI MAX

7,000 kg
9.65 m

HAYMASTER

4,000 kg
7.0 m

COTTON PRO

7,000 kg
9.65 m

Contact Dieci on **1300 888 479** or visit www.dieciaustralia.com.au