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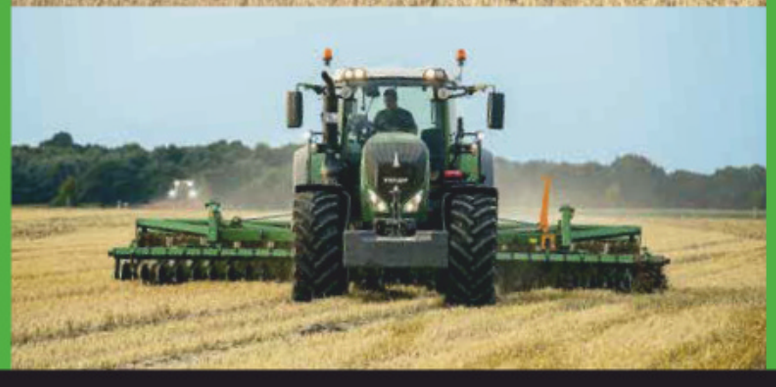
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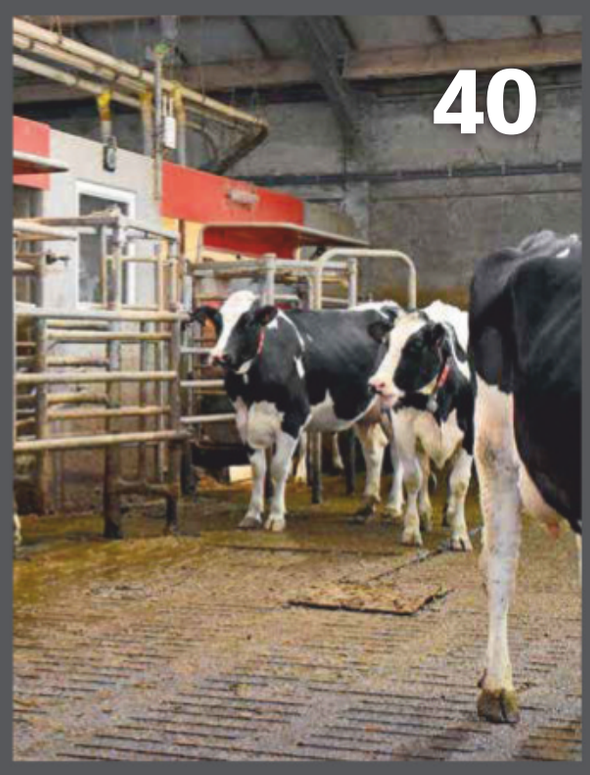

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Left: The Bobcat CT2040 is comfortable, uncomplicated and simple to drive

small but **sharp**

Bobcat Australia's new compact tractor range is built for easy operation and maximum manoeuvrability

Bobcat Australia has released a range of three compact tractors, all below 40 horsepower (75kW), in what the company says is a return to its agricultural roots.

Imported by Clark Equipment, the diesel-powered CT 1025, CT 2035 and CT 2040 each offer hydrostatic transmission and a generous lifting ability.

The two larger 31hp (23kW) and 32.1hp (23.9kW) models offer a hydraulic lift capacity of 740kg and a top speed of 24km/h, while the smaller model holds its own at 20.5hp (15.3kW), with a 318kg lift capacity and a top speed of 16.6km/h.

Clark agricultural products manager Cole Jones says he is excited to bring the models to the Australian market.

"People want something easy to use and comfortable; something that is uncomplicated, uncomplex and easy to drive, and that is what we have got now," he says.

"Especially a hobbyist and a lifestyle farmer – they want something they can get in and use, that is clean and will stand by them for many years."

The Bobcat tractors are designed for easy maintenance, with all filters and fluid fills located on one side of the engine, and a one-piecer hood makes the engine easily accessible. They also come with a 24-month, 1,500 hour warranty.

All three models have a safety interlock system, fold-down ROPS and a fully retractable seatbelt as standard, as well as cruise control, a suspension seat on the two larger models and optional side mirrors and rear working lights.

The tractors also have high ground clearance, a category 1 three-point hitch and a 540rpm rear power take-off, while its drawbar towing power offers strong performance.

Available only on the two larger models, the tractors' front-end loader attachment can be used for digging, dirt-moving, loading and carrying material, with a quick-attach mounting system allowing for grapples, pallet forks, combination buckets or angle blades to be attached.

Other attachments on offer are a front-end loader with a four in one bucket, a mid-mount mower for grass cutting and two backhoe models able to reach up to 2.5m of dig depth.

Jones says that other types of attachment are available.

"We have a vast array of attachments to go on our equipment through our Daken range of products and other imported lines we do as well," he says.

Left: The JCB Fastrac 4220 Stage V

going the **distance**

JCB has upped the ante with higher payloads on its new **Fastrac 4000 tractor series**. UK correspondent **Chris McCullough** reports

NEW axles and tyre options on JCB's new Fastrac 4000 Series tractors have the potential for increased payloads and durability, the British manufacturer says.

Delivering power from a stepless CVT transmission, the heavy-duty axles have load ratings 33 per cent higher than before, with increased durability thanks to larger hubs and bearings and larger kingpin bearings.

Larger externally-mounted brake discs have been fitted to increase braking performance, while the axle differential at the front is a larger, hydraulically-engaged locking design to enhance tractive efforts when conditions are slippery.

JCB says these upgrades will be especially beneficial for tractors engaged in high-draft load work or when fitted with new tyre options that help deliver even higher levels of traction in the field.

More advanced 'VF' category tyres will let operators make the most of the Fastrac's 50:50 static weight distribution, while enjoying the consistent ride height and in-work weight distribution provided by its front and rear self-levelling suspension.

To further enhance the 'GPS complete' technology available on Fastrac tractors, a factory-installed Trimble GFX-750 option prepares the tractor for immediate operation in the field.

Its simplicity, repeatable guidance and choice of signal correction services has made it a popular after-market purchase, and the configurable 256mm colour touch screen can be used as an ISOBUS virtual terminal for simpler implement operation.

JCB says the maximum power and torque outputs of the new range, set to arrive in Australia later this year, are unchanged at 175hp (130kW), 208hp (155kW) and 235hp (175kW).

However, running costs will be reduced thanks to a new Auto-Stop feature, which eliminates unnecessary fuel use by shutting down the engine after a period at idling speed.

With engine oil and filter service intervals extended from 500 hours to 600 hours and a factory-fitted precision guidance option, the refreshed range has many features to help reduce the total cost of ownership.

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practical luxury

John Deere increases comfort on latest Gator. **Chris McCullough** reports

With increased levels of luxury, John Deere says its new premium XUV 865R Gator is the most comfortable utility model it has ever produced.

Powered by an 854cc three-cylinder, liquid-cooled OHV diesel engine producing 23hp (17kW) at 3,600rpm, the XUV 865R Gator has a top speed of 50km/h in high range.

Standard specification on this vehicle, which is available worldwide, includes a continuously variable transmission with on-demand 4WD, power steering, fully independent suspension and an attachment-ready electrical system.

The quiet, fully equipped cab provides comfortable car-style seating for up to three people when driving off-road, as well as easy-opening door handles, a fully opening windscreen and a highly efficient heating, ventilation and air conditioning system.

In addition, the cab features an attractive tan-coloured interior that has been ergonomically redesigned, with the easy-to-use automotive-style controls now conveniently located in the centre of the dash.

The streamlined roof moves water to the outside edges, and both the high-level front and rear lights are set below the roof line for better protection.

The R trim specification also provides the fully enclosed cab with a wide range of extra standard features, including an adjustable 40/60 bench seat, tiltable steering wheel, sun visors, a windshield wiper and washer plus electrical wiring for attachments, as well as high and low-beam LED headlights.

To complement the robust frame, the vehicle is equipped with four-wheel independent suspension. This has been designed to provide a smooth ride and optimum load-carrying ability over challenging terrain, without compromising ride quality or vehicle stability.

The versatile deluxe cargo box is made of a durable composite material that eliminates rust and dents and reduces noise. There is an automotive style tailgate handle and the rear lights are available with optional protectors.

The cargo box can be easily converted to a flat-bed and has a load capacity of 454kg, while towing capacity is 900kg and total payload is 680kg.

For extra versatility the new John Deere XUV 865R Gator utility vehicle can be fitted with a wide range of attachments from snow blades to winches, and features a large 42-litre fuel tank for longer running between fill-ups.

Above: Improvements to the Gator include a redesigned cab and a wide range of additional features

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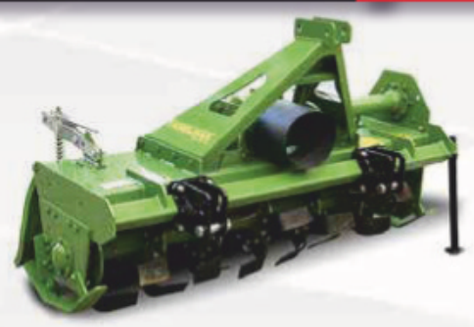

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Coolamon goes **compact**

Built for smaller wheel options, the local manufacturer's **compact spreader range** is designed to appeal to non-broadacre farmers

Above: The range of single axle Coolamon CSC compact spreaders starts with the 5,500 litre and go up to the 8,500 litre unit

Coolamon has developed a new compact spreader range based on its existing range of premium spreaders, which it says will cater to the needs of smaller farmers.

The range comprises three different size hoppers: from the CSC55 at 5,500 litres to the CSC70 at 7,000 litres and the largest in the range, the CSC85 at 8,500 litres.

The spreaders come with hoppers ranging in length from 2.8m to 3.8m, built low to allow smaller equipment to load them, and are designed to run on smaller wheel options.

Powder coated with a zinc primer, the spreaders have a 1m-wide cleated belt with polyurethane skirts, a heavy-duty roll over tarp, single axle adjustable out to 3m and flotation tyres as standard.

Owners can customise their machine with the extra options of weight scales, side delivery hydraulic conveyer, stainless steel hoppers, brakes, mudguards, orchard deflectors, light and camera packs.

Coolamon WA and SA state sales manager Preston Grigg says the company developed the compact spreader range in light of customer demand, adding that the new models offer many of the benefits of their bigger counterparts.

"Not everybody needs a broadacre spreader and these are ideal for horticulturalists, dairies and livestock operators," he says.

Built with a self-cleaning hopper design, the Coolamon compact spreader is ideal for granulated products such as lime, gypsum, potash, urea, poultry manure, feedlot waste and superphosphate.

The spreaders can carry from 6.9 to 10.6 tonnes of lime, and from 4.2 to 10.6 tonnes of urea, with minimal changes necessary when changing from one to the other, Grigg says.

The spreader features the Hazelton patented variable sized cones with bolt on spinner blades.

"The variable sized cones combined with the spread pattern and width is what puts these spreaders apart from the rest," Grigg says.

Running on a proven bearing system, the spinners are polyurethane with rounded backs, creating a negative pressure at the centre of the disc and pulling the product into the middle before throwing it out.

Grigg says the spreaders' hydraulic drive system, engineered by Coolamon, can be powered via a regular tractor remote circuit, and operated by a stand-alone Farmscan Jackal rate controller.

The Farmscan Jackal spread rate controller is a GPS-compatible system providing manual operation or fully automatic rate map control. All functions are easy to read on the 12cm colour graphic touch display with simple functions and a smart warning system to alert the operator on critical conditions.

Product rates and spread widths can be manually increased or decreased in pre-defined steps, and bins can be switched off or reduced to half rate to save wastage on poor soils or headlands.

When operating with GPS control, the Jackal adjusts rates automatically according to your prescription rate map on the USB device.

The Coolamon Compact Spreader range is currently available from Coolamon dealers and will also be exhibited at multiple field days across Australia this year, Grigg says.

"Contact Coolamon or your dealer to fulfil your requirements for early autumn programs."

> Not everybody needs a broadacre spreader and these are ideal for horticulturalists, dairies and livestock operators.

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Left: The Albutt 650 Bale King has 14 tines, which are curved and used to clamp onto bales to hold them securely

King's **gambit**

A new bale handler imported by Victorian company **Kerfab** is turning heads for its quick and efficient handling of round and square hay bales

The Bale King bale handling attachment can hold up to four hay bales at a time, and can hold both round and square bales securely enough to stack them wherever you might need.

Developed by UK-based attachments developed Albutt and imported by Victorian attachments company Kerfab, the Bale King is designed to bring new versatility to the bale handling space, it says.

Designed with three straight and 14 curved tines lifting vertically from the bottom tine bar, the Bale King allows the operator to pick up multiple bales and stack them in a shed, in a field, or on a truck, Kerfab marketing coordinator Ryan Hoban says.

"Its manoeuvrability allows an operator to stack and arrange the bales either vertically or horizontally," he says.

Hoban adds that customers have provided positive feedback on the attachment, first introduced in October last year.

"We're always trying to better serve our customers and provide them with the tools they're looking for and attachments that can help them get the most out of their machines," he says.

"We've found the Bale King to be an excellent time saver and something some of our customers would find very useful."

The Bale King comes with the option of Hardox tines, to resist against breakages, with a floating bottom tine bar able to fold in the vertical position for road transport.

They are also available with bolt on brackets to suit telehandlers and loaders, albeit with a minimum 3.5 tonne capacity.

LEft: The Cemos operating system for tractors will assist with basic implement settings as well as making big suggestions.

smart move

Claas is bringing a **new operating system** as an option for its Australian tractor range

Previously only available on its combine and forage harvesters, the Cemos machine optimisation system produced by Claas will be made available to Australian tractor buyers later this year.

The system will be made available as an option on all Axion and Arion tractors equipped with the CEBIS operating system, after previously being installed only on Lexion combine harvesters and Jaguar forage harvesters.

Shane Barrett, the Claas tractors product manager for local distributor Claas Harvest Centre, says the tractor variation optimises machine and implement settings to maximise throughput or fuel efficiency.

To use the system, an operator will enter a range of information about operating conditions at the beginning of a job.

This can include soil humidity, soil type and working depth, as well as machine data – such as tractor tyres and front, rear or wheel ballast, Barrett says.

"The system then recommends the best pressure for the front and rear tyres," he says.

Once the operator decides between options of either optimising work throughput or fuel efficiency, the system will make suggestions to improve the performance of the tractor-implement combination.

"When ploughing, for example, this may involve adjusting the working depth, front furrow, pull point and pull line or making sure that the skim coulter is at the correct height," Shane says.

"Each of these steps can have a significant impact on fuel consumption, wear, throughput and work quality."

The tractor variant of the system, which was awarded a silver medal for innovation at Agritechnica in 2017, is based on a "dialogue" with the driver, Barrett says.

"After each change, the driver can check the results on the screen and decide whether to apply the new setting or return to the previous setting," he says.

"In effect, Cemos prompts the driver to think about what he is doing. Even experienced drivers will find new ways to optimise the performance and efficiency of specific tractor-implement combinations."

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Left: Kubota's new electric X tractor is completely autonomous

future of farming

Kubota unveils new **electric X tractor**. **Chris McCullough** reports

Kubota has removed the curtains from a new futuristic electric tractor to help celebrate the Japanese company's 130th anniversary.

It's been 50 years since Kubota exhibited its first ever concept tractor at the Japan World Exposition held in Osaka in 1970 and now the machinery giant has done it again, unveiling its X tractor in time for the big birthday bash.

Equipped with artificial intelligence (AI) and electrification technology, this 'dream tractor' is completely autonomous, representing what Kubota sees as the future of farming.

The company wants to achieve a completely autonomous farming operation using weather data and growth rates to govern farming decisions. The environmental data obtained by tractors in operation can be automatically shared with other machines at site to realise a centrally-managed efficient operation.

Based 100 per cent on electric power through a combination of lithium-ion batteries and solar batteries, the new tractor aims to be very environmentally friendly with zero emissions.

It is a four-wheeled crawler tractor, which achieves stable autonomous driving even on wet fields and uneven terrains.

The four wheeled crawler changes its shape to maintain the tractor height at the optimal level, thus performing in various processes. For jobs that need high traction, the contact area with the ground can be increased by lowering the tractor height in order to lower its centre of gravity.

On the flip side, when operating above crops for their management, clearance from the ground can be adjusted by increasing the tractor height.

An in-wheel motor makes it possible to arbitrarily change the rotation speed of the four crawlers, front, rear, right, and left, to achieve a small turning radius for autonomous operation on various types of land.

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Czech MATE

Demand for deep tillage equipment has led **Serafin Machinery** to look to Europe for a new approach, with at least four new products set to join the range

Demand for deep tillage equipment has been on the rise Australia-wide in recent years, as farmers seek tougher equipment to break through heavier than normal soils.

For Serafin Machinery, which specialises in providing seeding and tillage equipment from manufacturers as diverse as Brazil's Baldan and Tatu Marchesan, it was time to look further afield, company sales manager Rodney Dunn says.

"Deep tillage at the moment is quite a hot topic – there is trial work and there are a lot of people looking at getting into it, if they are not already," he says.

This led Serafin to Farmet, a 25-year-old company based in the Czech Republic, which Dunn says is "completely different to what we have at the moment".

"The good thing is none of the products directly overlap with what we already have from Baldan and Tatu, which expands our range and gives our dealers a bigger range of products to be able to offer as well," he says.

One of the key strengths of Farmet is the diversity of soil types and treatments it caters for.

"In the Czech Republic there are many large, medium and small agricultural enterprises and farms that have various types of soils from light sandy to heavy loamy soils and from extensive lowlands to rugged foothill areas," Farmet says.

"These various soil and climatic conditions create a wide range of required technologies, which enable us to successfully develop machines for both European and Asian markets."

Farmet's Softer high-speed compact disc cultivators can be used for everything.

DIGGER CULTIVATOR

Farmet's Digger range of deep cultivators is among the most eagerly awaited of the product range, with Dunn saying Serafin has already been fielding inquiries about the products.

With a working depth of between 250–500mm and varying in working width from 2,900–3,900mm, the Farmet Digger can reach a top working speed of 12km/h, due in part to the low traction resistance provided by its unique tine design.

Two rows of tines help provide the machine with stability and precise depth guiding without the need to use depth wheels – while the high frame clearance of 750mm makes it easier to control. The Digger is also designed to allow one row of tines to be lifted when working in heavy soil conditions, such as on particularly marshy land or after harvest.

KRTEK CULTIVATOR

Also in Farmet's deep cultivator range is the Krtek, with a working width of 2,200–4,400mm.

Equipped with up to seven ploughshares, the cultivator can reach a working depth of between 500–600mm, with its one row of tines designed to cut through the soil without mixing topsoils with any inferior soils below them.

The Krtek can be used to help restore draining in waterlogged soils, though Farmet says it does not need to be used every year when other anti-compaction methods are used.

SOFTER SPEED DISC

Serafin is also introducing new speed discs from Farmet to Australia, with Dunn saying the models will help add new versatility to the company range.

Farmet's Softer high-speed compact disc cultivators can be used for everything from breaking up stubble to preparing the soil before breaking or ploughing takes place.

Depending on the model, the Softer has between 10 and 25 discs on two rows, each measuring 510–560mm in diameter and protected by rubber mounting to prevent damage from coming into contact with an obstacle.

The discs keep their working angle even when partially worn and are placed in maintenance-free bearings with a good service life, Serafin says, adding that the number of adjustment

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and lubrication points have been kept to a minimum.

The cultivators have a working depth of 35–120mm and a working width of between 2,400–8,000mm, operating at a top working speed of 15km/h and requiring between 90–350hp (67–250kW) to operate, depending on the model.

DISKOMAT HEAVY DUTY SPEED DISC

Farmet's Diskomat plough has a similar short compact design, despite being available in widths from 5,000–7,800mm and able to reach a working depth of 50–180mm – with this setting easily adjusted.

This model is fitted with 620mm diameter discs and can reach a top working speed of 12km/h and a weight of 6,200–8,660kg.

The discs are each separately protected and placed in a way to ensure the machine continues to operate well, while behind each of the discs is a deflector striking down flying clods.

Like the Softer, the Diskomat also has low maintenance requirements, with easily accessible adjusting nodes and controlling elements able to be comfortably regulated from the operator's position in the tractor during work.

Both the Softer and the Diskomat have a range of rollers and hinges and a microdrill seeding attachment available as optional extras.

JUST IN TIME

Dunn says Serafin's first batch of Farmet equipment is set to arrive in Australia in late February, with more set to arrive in April.

"Basically we will be focusing this a lot on the Eastern Seaboard at the moment while we get the brand established," he says.

"We will be running some local demonstrations and things like that once we get them here, so that will be done through the Riverina area… but they will be available for sale straight away through our dealers, or direct, depending on where they are."

Dunn says that when it arrives the equipment will be a major asset for the company.

"There is a bit of a market for good quality high speed tillage machines here in Australia so it is definitely something we have had in mind for a fair while, we have just been waiting and looking for the right machine," he says.

"Farmet offers a very good range, a very good product and a very good price and it just means we are able to offer that to our dealers as well as our customers direct."

1. The Digger range has a working depth of between 250–500mm
2. The Krtek can be used to help restore draining in waterlogged soils
3. Farmet's Softer high-speed compact speed discs can be used for breaking up stubble or preparing the soil

> We will be running some local demonstrations and things like that once we get them here.

Left: The new frame for the Ultisow single disc seeder makes access easier for maintenance and adjustment

easy access

Serafin's Ultisow High Lift offers higher clearance for maintenance and in-field adjustments

Tillage equipment manufacturer Serafin Machinery has launched a new frame for its Ultisow single disc seeders, which it says will make maintenance and in-field adjustments easier.

The Ultisow High Lift Frame can be raised about 1m higher than the standard bar – to an under-bar clearance height of 1.6m, putting the row units at a much more comfortable height to work on.

Serafin says it completed the remodel in response to customer demands, and making access to row units easier was the first item on the list.

Company sales manager Rodney Dunn says the low clearance on the earlier model had made it difficult to get work done.

"We spent a lot of time in the past eight to nine years making the row units a lot easier to work on, and require less maintenance, but never really addressed the whole access issue with as much as we have with this frame now," he says.

"It is all at waist height and it is going to be a lot better from a serviceability point of view – but it is also going to be better from an operator standpoint to get in and do that without having to squeeze in and around it."

A second key point of the frame redesign is its customisation options – the frame can be built with either two or three ranks of row units which could then allow row spacing down to 150mm without compromising trash clearance.

"Previously a standard Serafin Ultisow could achieve 158mm spacing over two rows but the spacing was very tight," the company says.

"Adding the option for a third row has given them the ability to offer slightly narrower row spacing whilst keeping the units open enough to work on easily."

Currently available in either 9m or 12m sowing widths, the frame is built from powder-coated, 9mm thick steel, and can be used with or without a rolling bar.

The frame also has 3m wheel centres for those using controlled-traffic farming methods.

The Ultisow High Lift Frame will be available from Serafin dealers for this year's sowing season.

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tough year ahead

Shortages of water, feed and soil moisture as well as the localised impacts of bushfires will make a strong rebuild in agricultural production "less than likely" in 2020-21, according to a new **Rabobank report**

A multi-year rebuild is the most likely path forward to a positive future for Australian agriculture, according to a new report released by agricultural bank Rabobank.

In its *Agribusiness Outlook 2020* report, Rabobank says 2020 will be "extremely challenging" for agriculture, with the sector facing its third consecutive fall in farmgate revenues.

Lead author of the report and Rabobank's head of food and agribusiness research Tim Hunt says that while many farmers had built solid equity buffers heading into the current drought, poor seasonal conditions over the past three years had placed the sector in a difficult position.

"While recent rainfall across drought-affected regions has brought some optimism, farmers will need continued rain to replenish soil moisture and break the drought," he says, adding that the above-average rainfall needed over the next three months to recover from low soil moisture levels was unlikely to occur.

This means production volumes will be down "pretty much across the board" for the 2019-20 growing season, he says – with poor winter crops, cotton production slashed and meat and dairy reduced due to falling herd numbers.

"The beef herd and sheep flock will take years to rebuild from current lows, while refilling key storages in the southern Murray Darling Basin will likely take several favourable seasons," he says.

That said, forecast high commodity prices will provide some consolation for the sector, with demand for beef to be high, though lamb prices are expected to ease slightly.

"For the animal protein sector, Chinese imports will remain at elevated levels in the wake of China's culling of livestock in response to African Swine Fever, with the rebuilding of their pig population to take several years," Hunt says.

"Global markets for wool and dairy remain firm and the local market basis (wheat price) will be sustained by constrained domestic grain production."

With the global economic impacts of the US presidential election, Brexit and what the report says is "a pivotal year for the world's transition to tackling climate change", Rabobank says it is important to rebuild a "robust and adaptive" Australian agricultural industry post-drought.

"There are a number of factors mounting to indicate 2020 is going to see a significant transition in the world's tackling of climate change, which will create opportunities as well as threats for agriculture," Hunt says.

"It will be important for the Australian sector to rebuild out of drought to be strong and adaptable so it can capitalise on these opportunities and mitigate the threats that lie ahead."

Left: Rabobank's head of Food and Agribusiness Research Tim Hunt

farmers top compo list

Being hit by a moving object was the most common reason for agriculture workers to make a serious workers' compensation claim in 2017-18

Agriculture workers and those in forestry and fisheries had the highest rate of workers' compensation claims requiring more than five days off work in the 2017-18 financial year, according to Safe Work Australia (SWA).

SWA, a statutory body which helps governments develop occupational safety and workers' compensation policies, looked at all 107,335 serious claims made during the period for the *Australian Workers' Compensation Statistics report 2017-18*, released in January this year.

The report showed agriculture, fisheries and forestry workers made 8.6 serious claims per million hours worked in 2017-18 – or 16.7 claims per 1,000 employees – more than manufacturing workers (8.1 claims per million hours) and transport, postal and warehousing services workers (7.7 claims).

Agriculture workers accounted for 2,730, or 77 per cent of the 3,560 serious claims made across the agriculture, fisheries and forestry sector in 2017-18 – meaning agricultural workers made 8.3 serious claims per million hours worked and 16 serious claims per 1,000 employees.

The most common cause of an injury among Australian agriculture workers in 2017-18 was being hit by a moving object – a statistic that excludes vehicle incidents – accounting for 775 incidents or 28.4 per cent of the total.

Injuries caused by repetitive and strenuous work – known as "body stressing" and injuries cause by slips, trips and falls were the equal second most common cause of injury among Australian agriculture workers, with 625 incidents recorded each – 23 per cent each.

In line with the national average, the most common type of injury among agriculture workers was to joints, ligaments, and muscles or tendons – with 975 claims or 36 per cent of all agricultural worker claims being made for this reason.

Wounds, lacerations and amputations were the second most common injury – with 610 cases making up 22 per cent of claims, while there were 570 claims for fractures – 20.8 per cent of the total.

Also in line with the national average, most claims were for injuries affecting the upper limbs – everywhere from the shoulders to the finger tips – with 1,070 agriculture workers, or 39 per cent of the total, citing it as the reason in their cases.

The next highest place of injury was in the lower limbs, with 785 cases – 28.7 per cent of the total – and 525 injuries to the trunk, including the back, 19.2 per cent of the total.

For contrast, of the 4,155 serious injuries among agricultural workers recorded in 2000-01, there were 1,600 injuries to the upper limbs (38.5 per cent), 1,105 to the lower limbs (26.6 per cent) and 1,040 to the trunk (25 per cent).

Left: Most workers compensation claims made by agriculture workers in 2017-18 concerned injuries to their upper limbs, the report found

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open **sesame**

Left: Black sesame seeds could be a top crop for Australia's north. *Image courtesy Alamy.*

Could **sesame seeds** be moving into your paddock? A research team based in Rockhampton is on its way to finding out

Global production of sesame seeds is likely to double in the next 20 years, and it could be the perfect match for broadacre farmers in northern Australia.

At least, that's what a team of researchers from Central Queensland University and the Co-operative Research Centre for Developing Northern Australia are looking into.

The prospects of the crop are being investigated in a three-year research project run by the two groups to investigate whether five high-value spice crops – cumin, fennel, caraway, black sesame and kalonji, also known as nigella seeds – are suitable to be included in broadacre crop rotations in Northern Australia.

Not to be confused with the white sesame seeds placed on top of hamburger buns or used to make tahini, black sesame is an oilseed used commonly in Japanese, Korean and Chinese desserts – including as a filling for rice cakes and as an icecream flavouring.

An early report released by the groups says Australia's chance to expand production of black sesame will be determined by a combination of market factors, as well as environmental conditions and availability of suitable land.

While sesame plants are tolerant to heat and moisture stress, drought can affect germination, seedling growth and advanced development stages – making access to supplementary irrigation advantageous for those looking to grow it.

"Growing global demand, proximity to international markets, high crop prices, and access to suitable land and tolerance of Australian environmental stressors ideally place Australian agriculture to establish a viable long-term sesame industry generating revenue through import replacement and export sales," the report states.

Establishing a larger domestic supply will also be important in achieving this, CQUniversity associate professor Delwar Akbar says, noting Australia only had 525 hectares of land dedicated to growing white and black sesame varieties when studies were last done in 2018 – compared to 9.9 million hectares globally.

In 2017 the world production of sesame was approximately 5.5 million tonnes, which is expected to grow to 9.26mt by 2040, with the demand for sesame in China alone expected to reach 2.56mt by the same time.

Currently, the average yield from sesame crops is 554kg/hectare, at an average price of US$1,229 per tonne in 2018 – though black sesame returns were about 45 per cent higher on average than white sesame seeds, Akbar says.

"With China, Japan and Korea among the largest importers of sesame, Australia may have an advantage in both our geographic proximity and our clean green image, especially given that we have free trade agreements already in place with these countries," he says.

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Drought and fires lead to lower January machinery sales, according to the **Tractor & Machinery Association**

January machinery sales **down**

Left: The TMA expects the impact of the drought to be felt on tractor sales for quite some time. *Image courtesy Alamy*

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

Following on from December's end of year rush where we saw a 7.5 per cent lift, tractor sales have, not surprisingly, been well down for January – behind 16 per cent on the same month last year.

Dealers generally say extreme weather events along with the prolonged bushfire season have considerably impacted what demand there was in the market.

Some optimism has returned to agriculture with early rainfall and a number of bushfires being extinguished at the time of going to press, with solid commodity prices providing some hope for farmers planting late summer crops.

Despite the rains we feel 2020 is unlikely to be the year of full recovery from the drought, with tractor sales likely to be down this year at around 10,000 units.

That said, very low interest rates combined with strong inventory levels means that buying opportunities for farmers should remain strong throughout.

The story in January was nothing short of dismal in NSW, down 33 per cent on last January and Queensland which was down 27 per cent.

The story in South Australia was not much better, off 19 per cent for the month whilst Victoria was the one bright spot, up 2.5 per cent for the month. Western Australia was in line with last year.

January sales were strongest in the 100 to 200hp (75–150kW) category, up 2.6 per cent. The 200hp (150kW) and above range was down 13 per cent for the month, the 40 to 100hp (30–75kW) range was also down 20 per cent and the under 40hp (30kW) range again struggled, down 31 per cent.

Conditions for combine harvester sales continue to be very challenging with only a small number of sales completing in January. Importantly, it is generally around this time of the year that forward orders are placed for deliveries later in the year and the outlook for these is presently mixed across the nation.

Hay baler sales have taken a bit of a breather in January, down 29 per cent on last year's bumper result, however, the prevailing view is that demand will still be very strong and anything that can be cut, will be cut, so we are expecting another strong year for baler sales.

Lastly, out front mower sales were well down in January, off 50 per cent for the month.

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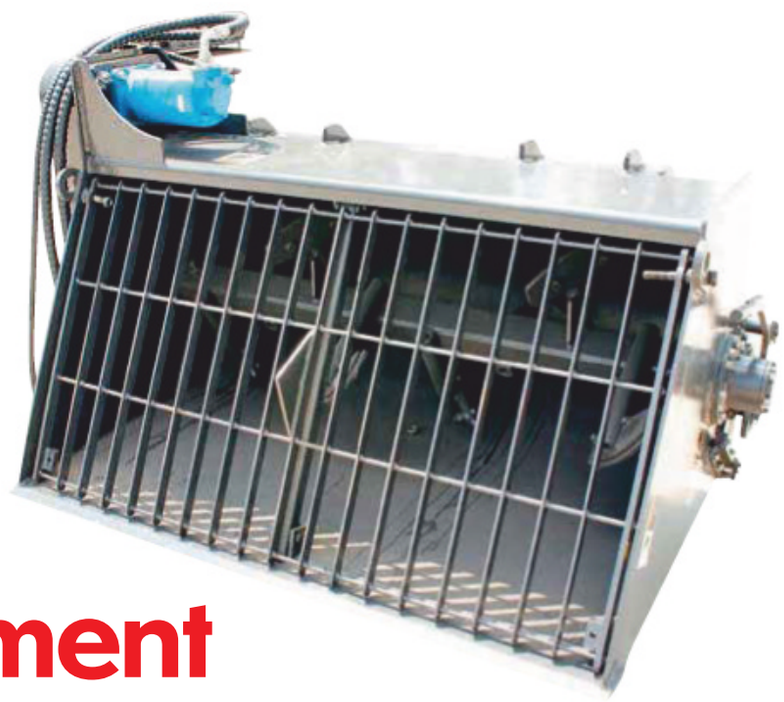

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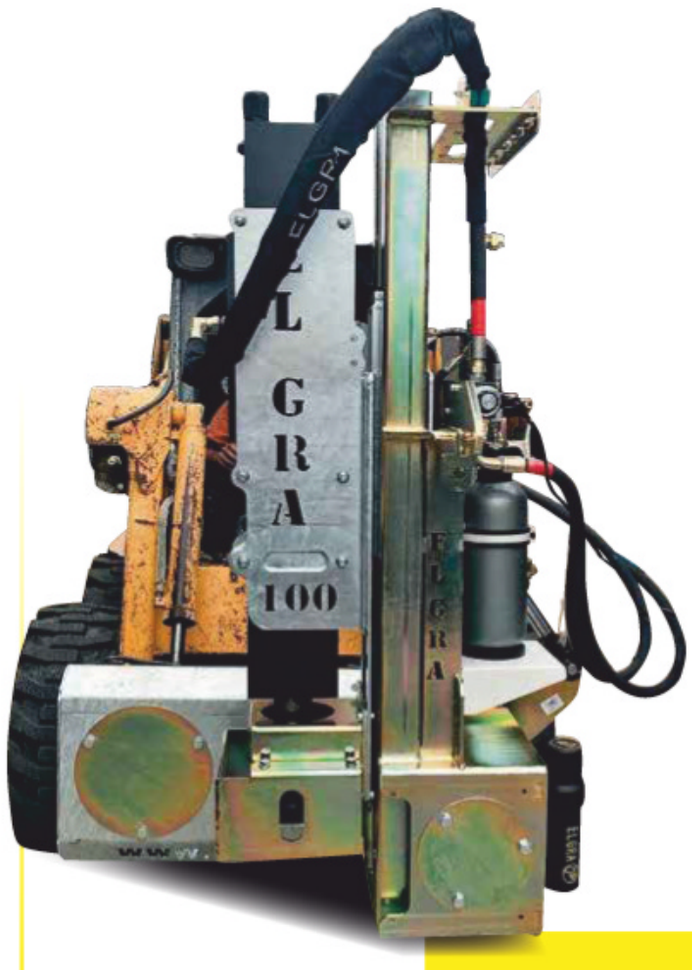

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Strong bones

Held in the heart of Victorian dairy country, the **Sungold Field Days** were a chance for dairy-focused manufacturers to show off the newest products in their ranges. **Andrew Hobbs** was there

Now in its 39th year, the Sungold Field Days is one of Victoria's premier agricultural events, showcasing a vast range of agricultural machinery and the latest in dairy innovation.

Held behind the Warrnambool Cheese and Butter Factory in Allansford, the event covers 7.5 hectares and is the only dairy-focused field days in the region.

It was also a chance for manufacturers to exhibit their new products in dairy country – and many took the opportunity.

Here were some of the highlights:

MANITOU MLA-T 533-145 V+ ARTICULATED LOADER

Manitou's range of articulated loaders offers the farmer a variety of options, with a static tipping load of over four tonnes with forks at full turn, and able to reach a top lifting height of 5.2m. Powered by a 143 horsepower (107kW) Deutz engine, the loader has a M-VarioPlus transmission and can reach a top speed of 40km/h.

Flat LED rotating beacons and complete road lighting come as standard on all models, with hydraulic attachment locking and additional hydraulic improvements available as optional extras.

SAMASZ P6-771 TEDDER

Samasz's range of hay tedders has been designed with the wheels and working fingers close together to endure high purity in all fodder collected, while a hydraulically unfolded screen helps reduce the loss of any green fodder during tedding at the edge of a paddock. At the same time, the small diameter of the carousels and the stability of the working fingers guarantee that the entire swath is picked up even when tedding on a mower path without the use of a crusher.

Measuring between 7–7.7m wide while working and equipped with six rotors, the P6-771 requires between 50–60hp (37–45kW) to operate and is sold through Colac Ag.

PERARD OPTIMUM CE 185-SLC SPREADER

With a holding capacity of 19 cubic metres and sporting 1,050mm rotors with a working width of 18–20m, this manure spreader is deigned to perform for a variety of applications.

Perard says its Optimum range features the Perard Double Helix Rotor system, which it says delivers regular crumbling of the material via a tight 25mm spacing between each knife. The rotors also feature a balancing system which enables high rotation speeds to deliver a superior spreading range, it says.

The rotors also feature a balancing system which enables high rotation speeds to deliver a superior spreading range.

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1. KenBuilt 3500 HD disc tiller
2. Kenbuilt 3500 direct drill
3. Rata PowerClaw PC220
4. Perard Optimum CE 185-SLC spreader
5. Samasz P6-771 tedder
6. Manitou MLA-T 533-145 V+ articulated loader
7. New Holland TH 7.42 elite telehander
8. Mandam Gal-K 6.0 disc harrow

KENBUILT 3500 HD DISC TILLER

Imported and distributed by the Melbourne Tractors Group, the disc tiller has a working width of 3.3m and requires between 160–270hp (119–201kW) to operate. The tiller discs measure 26mm by 610mm and feature double sealed bearings, each spaced 250mm apart, while the drum on the drum roller is fully enclosed. It also offers full hydraulic control for disc depth, roller adjustment and chassis levelling.

NEW HOLLAND TH 7.42 ELITE TELEHANDER

Newly available in Australia, New Holland's TH range of telehandlers boast new advances in cab design to offer 360 degree visibility and a twin U-shaped robot welded boom built to be rigid and durable. The 146hp TH 7.42 Elite model has a maximum lift height of 7m and a top lift capacity of 4,200kg, as well as a powershift transmission with six forward gears and three reverse gears. Able to hit a top speed of 40km/h, the telehandler also has hydraulic assisted power brakes and 4WD traction.

MANDAM GAL-K 6.0 DISC HARROW

Available through Colac Ag and manufactured in Poland, the 6m Mandam Gal-K disc harrow boasts 48 560mm discs made from boron steel, requiring a 200hp (149kW) tractor to operate.

The working units are mounted to the frame by rubber suspension rollers and reinforced maintenance-free bearing units, while hydraulic working depth adjustment and a transport chassis with pneumatic brakes are standard. Mandam says the pre-set disc angle is optimised for best efficiency.

KENBUILT 3500 DIRECT DRILL

With a working width of 3.5m and a total bin capacity of 1,300 litres, the direct drill unit offers a mechanical metering system equipped with a Jackal Monitor for speed and acreage measurement.

The spring-loaded disc coulters are spaced 125mm apart and are equipped with hydraulic depth control and a ribbon disc to cut through tough topsoil, while the L-shape harrows are height and level adjustable. The drill is built to last, with tungsten tips on the tillage points and stainless steel agitators in the adjustable bin, with sealed wheel bearings and a self-cleaning fill platform making life a little easier for the operator.

RATA POWERCLAW PC220

Making its debut in Australia, the PowerClaw attachment by New Zealand manufacturer Rata is designed to perform almost any job on a telehandler, tractor or skidsteer.

The Power Claw boasts 16mm, 400 grade high tensile steel tines designed to interlock, providing excellent grip on any products being handled.

Clever pin geometry on the Power Claw enables a large open width of 1,300mm while providing maximum direct clamp force without the use of toggles.

Rata says the Power Claw can be used for log clawing, root raking, scrub and rock clawing as well as for clearing rubble and other trash. Versions are available from 1.6m to 2.4m wide – with the 2.2m model weighing 510kg, and recommended for vehicles with more than 160hp (119kW).

Clever pin geometry on the Power Claw enables a large open width of 1,300mm.

events calendar

Here's a look at the **Agricultural and Rural Field Day** event highlights for **March, April and May 2020**

ABARES Outlook 2020, Canberra

The Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) is the research arm of the Australian Government Department of Agriculture and Water Resources. The ABARES Outlook 2020 conference will explore practical steps to reach the target of $100 billion in farm output by 2030. Be part of the conversation as speakers and delegates consider the opportunities and threats in reaching that target.

WHEN: March 3-4, 2020
MORE INFO: www.agriculture.gov.au/abares/outlook

Wimmera Machinery Field Days, Longerenong

Wimmera Machinery Field Days is hosted at the purpose-built Wimmera Events Centre at Longerenong near Horsham in western Victoria and has grown into one of Australia's largest agricultural and agribusiness trade shows. The first night will be a Twilight Expo, staying open until 7pm.

WHEN: March 3-5, 2020
MORE INFO: wimmerafielddays.com.au

Wagin Agricultural Show, Woolorama

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

WHEN: March 6-7, 2020
MORE INFO: www.woolorama.com.au

South East Field Days, Lucindale

Held at Yakka Park, Lucindale, this year will be the 42nd South East Field Days. With farm machinery and other local business exhibitors, dog trials, displays, competitions and entertainment for all the family, there's plenty for everyone.

WHEN: March 20-21, 2020
MORE INFO: www.sefd.com.au

Farm World, Warragul

Attracting more than 55,000 visitors and over 800 exhibitors over four days, Farm World offers a strong focus on the latest technology, equipment and information and provides an ideal opportunity to get up close and chat with the experts. There's plenty at Farm World for both urban pioneers and lifestyle farmers and returning in 2020 will be the Telstra Women in Ag lunch.

WHEN: March 26-29, 2020
MORE INFO: lardnerpark.com.au/farm-world

Kapunda Farm 4x4 Outdoor Expo

The new Kapunda Farm 4×4 Outdoor Expo event (formerly Kapunda Farm Fair) will be bigger and better by far in 2020. In addition to farming sector exhibitors, there will also be sheds, cars, 4×4 vehicles/gear, and outdoor interests (camping, fishing, caravans, boats, etc.).

WHEN: March 27-28, 2020
MORE INFO: https://kapundafarmfair.com/2020

Karoonda Farm Fair, Murray Bridge

The Karoonda Farm Fair is an annual two-day event showcasing local, state and interstate farming and general interest products, services and events. With over 250 exhibitors each year, and crowds of around 7–10,000 over the two days, Karoonda Farm Fair is a key event in the area.

WHEN: April 3-4, 2020
MORE INFO: www.farmfair.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 300 exhibitor spaces, 8,000 visitors on average and numerous quality promotions at the Field Days, East Gippsland is definitely not one to miss.

WHEN: April 17-18, 2020
MORE INFO: www.egfielddays.com.au/visitor-information-entertainment

Tocal Field Days, Tocal

Highly regarded for its educational aspect, 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: May 1-3, 2020
MORE INFO: www.tocalfielddays.com

Agfest, Carrick, Tasmania

Agfest is a multi-award winning event and offers an excellent opportunity for your business to showcase its products to thousands of people. Operating for over 35 years, Agfest is an event organised by the volunteer members of the Rural Youth Tasmania. Agfest is a Tasmanian success story that injects millions of dollars into the local economy annually.

WHEN: May 7-9, 2020
MORE INFO: www.agfest.com.au

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

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World of good

Farm World at Lardner Park, outside Warragul, Victoria, is set to get underway in late March – and the team has got plenty planned

1. Farm World offers the farming community a great opportunity to connect and see what new products are on offer

2. Farm World covers up to 40 hectares of exhibitor displays at the Lardner Park site

3. Let the kids get to grips with farm animals at Farmer Darryl's Animal Nursery

Keen for fitness and a bit of a challenge? Make sure you enter Farm World's Fittest Farmer.

For 53 years this premier regional agricultural show has been giving patrons the chance to talk with experts in the field and learn all there is to know about farm animals.

To be held in Lardner Park, outside Warragul, Victoria, from March 26–29, Farm World is not only a haven for the farming community but also a great event for locals and urbanites with a passion for the great outdoors.

SMART SHOPPING

With up to 40 hectares of exhibitor displays, both indoors and out, you will find equipment, farm machinery, clothing, sheds, outdoor living – including boats, caravans, horse floats and vehicles, technology, plants and masses of must-have tools.

Shop until you drop with plenty of retail shopping options both large and small, for the home, wardrobe or workshop – add in a parcel delivery service to assist with all those purchases, and you have the perfect way to shop!

On the Saturday and Sunday only, the Events Centre will come alive with the Farm World Market Place.

Bring your basket and stock up on bone broth, honey products, vegan breakfast cereals and snacks, preserves, wood chopping boards, native floral arrangements plus loads more. With live cooking demonstrations on the main stage, this is a must-see attraction during Farm World 2020.

It wouldn't be Farm World without a huge variety of animals. Come and chat to the cattle breeders and check out the different breeds, watch the kelpies round up sheep, learn to walk an alpaca or get up close and cuddly with the animals in Farmer Darryl's Animal Nursery.

And while Farm World's landscape is a little bit up and down, there's no need to be concerned if mobility is a challenge as there are single and double scooters available for hire. Visit the Lardner Park website for booking details.

PERFECT FIT

Keen on fitness and up for a bit of a challenge? Make sure you enter Farm World's Fittest Farmer, located in the Entertainment Arena on Sunday. Some great prizes are up for grabs so sign up online to have a go; or if you're happy to be a spectator, come along and cheer on the participants as they battle it out for the crown.

The Telstra Women in Ag lunch, a signature event and highlight for many, will feature a spectacular line up of presenters including Frauke Bolten-Boshammer from Kimberley Fine Diamonds, Megan Williams from The Camel Milk Co. and Sophie Stewart from online women's information hub Got You Girl.

Visit the website at lardnerpark.com.au/women-in-ag to read all about this year's speakers and secure your ticket to this event.

Farm World boasts a huge variety of unique and memorable experiences and value for all visitors including cattle dogs, an animal nursery, pony and camel rides, live music, food and drink, demonstrations and presentations, and so much more!

Information and ticketing for Farm World and functions are available online now at lardnerpark.com.au, purchase ahead and save both money and time at the gate.

Follow the Farm World – Lardner Park page on Facebook to keep up with all the latest news and additions to Farm World in the lead up to the event, or if social media is not your thing, sign up on the website to receive a regular e-newsletter.

With fun and entertainment for all the family, a great time is guaranteed at Farm World 2020.

Farm World

LARDNER PARK

Gippsland

26-29 March 2020

Featuring:

- Farm World Market Place
- Telstra Women in Ag Lunch
- Farm Worlds Fittest Farmer
- Farmer Darryl's Animal Farm
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For full event information and more, please visit **www.lardnerpark.com.au** or follow Farm World - Lardner Park on Social media.

1

Jason Hodges
AT 2020 DD&T

2

3

TV landscaper Jason Hodges will be providing gardening advice at **Diesel Dirt & Turf Expo 2020**

1. Jason Hodges
2. Plenty of attachments to check out
3. Slashers and grounds care equipment

He's still entertaining and informing people about his passion, the great Aussie backyard.

No one knows landscaping equipment better than television landscaper Jason Hodges. A familiar face on television, Hodges's ideas and creativity have become essential viewing for aspiring home landscapers.

As the National Diesel Dirt & Turf Expo ambassador for 2020, Hodges will be on hand for anyone to meet and greet, and to ask questions about some of his landscaping hints.

FROM PASSION TO CAREER

By the time he completed high school, Hodges had turned mowing the lawns of a few neighbours into a business. Always loving the outdoors, Jason studied landscape construction at Ryde TAFE, opening his own landscape business in the early nineties. With success in his field came opportunities. He moved on to part-time teaching and in 1999 appeared on television.

Twenty-one years later, he's still entertaining and informing people about his passion, the great Aussie backyard. Whether it be a push mower, ride-on, a blower or a Toro mini digger, Jason loves using the right gear for every job.

"You wouldn't go out to bat in a test match with a golf club, and you wouldn't play golf with a cricket bat," Hodges says.

"Diesel Dirt & Turf is an excellent opportunity to learn what you need to do your jobs easier, quicker, safer and more profitably."

LANDSCAPE COMPETITION WINNER

Hodges knows what he's talking about. As one of the most successful landscapers in Australia, he is a five-time gold medalist at The Melbourne International Flower and Garden Show (MIFGS). In 2012, he made his Show Garden debut at London's prestigious Chelsea Flower Show, taking out second prize.

Hodges now runs a topiary farm with his partner Lisa in Berry, New South Wales, and supplies wholesale to nurseries and landscapes. He is dad to daughter Heidi and son Jake, both nine and it's rare to find him without his beloved fox terrier Dannii at his side.

Hodges will be at Diesel Dirt & Turf each day and you can meet him on the Toro stand #62C or Semco stands #68-69.

■ **The 2020 National Diesel Dirt &Turf Expo will be held at Panthers Penrith from Friday, May 15 through to Sunday, May 17. If you would like to exhibit or visit the Expo, check it out now at www.dieseldirtandturf.com.au.**

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helping hand

Rural Australians and the businesses they run are lending a **helping hand** to farms and communities devastated by the recent bushfires

More than 3,000 homes were destroyed, an estimated 10 million hectares of land burnt out and 33 people killed in bushfires that swept across Australia during the summer months.

While the full impact of the summer bushfires on farms and rural communities is still being fully counted, it is believed that many fruit and vegetable growers in particular have been affected by fires burning through South Australia, Victoria and New South Wales.

To remedy this, some farming-focused enterprises have moved to provide assistance with the clean-up effort, alongside an initial $2 billion government grant to establish the National Bushfire Recovery Agency.

PFG Australia will provide over $2 million worth of tractors and machinery in partnership with primary dealers and suppliers in east and north-east Victoria, southern New South Wales, the Hunter region, and Kangaroo Island.

The company will provide Deutz Fahr and Kioti tractors to carry out fencing, baling and feed distribution activities as well as land tillage and seeding, while it is also using balers to collect donated hay, grass and other feed crops.

Kubota has also assisted, donating two new tractors to be auctioned through the Lloyds Bushfire Relief Auction to raise funds for the Country Women's Association of New South Wales.

But social media is continuing to play an important role in the cleanup, with many using Facebook as a way to put willing helpers in touch with the groups that need them.

Carpenter Piers Smart set up the Tradies for Fire Affected Communities Facebook group at the beginning of January, which had more than 14,000 members at the time of going to press.

The Facebook group allows affected communities to log help requests about what help and what trades are needed, as well as when and where the places are located.

It also allows volunteers to register themselves and their occupations, as well as how many are in the team, when they are available and how far they are willing to travel.

Ultimately, Smart aims to set up an accompanying website (tradiesforfireaffectedcommunities.com) to make the networking simpler, but this was a work in progress at the time of going to press.

However, not everything on social media is genuine, and the Australian Competition and Consumer Commission is warning that some appeals for assistance may come from scammers either impersonating a fire victim or in creating false websites to masquerade as a registered charity.

The ACCC recommends that people avoid donating to online fundraising appeals in platforms that do not guarantee your funds will be returned if the page is discovered to be a fraud, or which do not verify the legitimacy of the fundraiser.

A visit to the Australian Charities and Not-for-profits Commission Charity Register website (www.acnc.gov.au/charity) can help verify which causes are legitimate.

Among the registered charities raising funds to benefit farmers after the bushfires are BlazeAid, which helps to rebuild fences after natural disasters; and Rural Aid, which is aiming to raise over $25 million to give fire affected farmers about $2,500 each in recovery support through water, fodder (hay), financial assistance and pre-paid visa cards.

■ **Visit blazeaid.com.au and ruralaid.org.au to find out more.**

Above: PFG Australia will provide tractors to assist with the repair and clean-up effort.

Farming-focused enterprises have moved to provide assistance with the clean-up effort.

BERENDS

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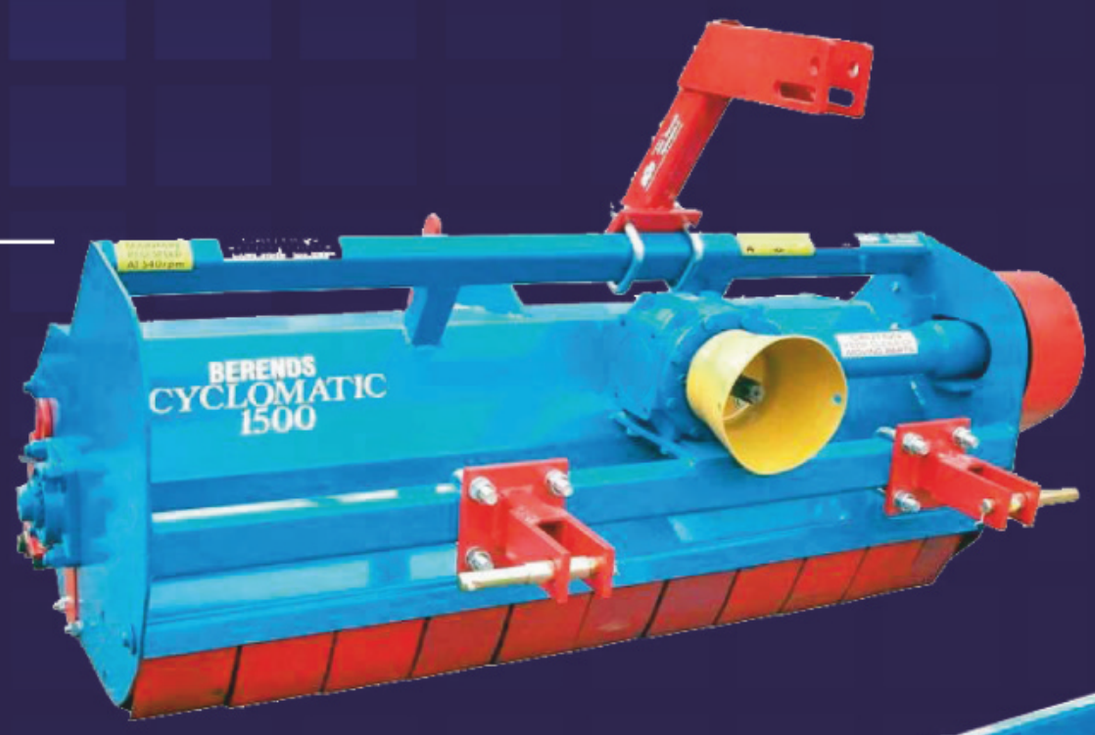

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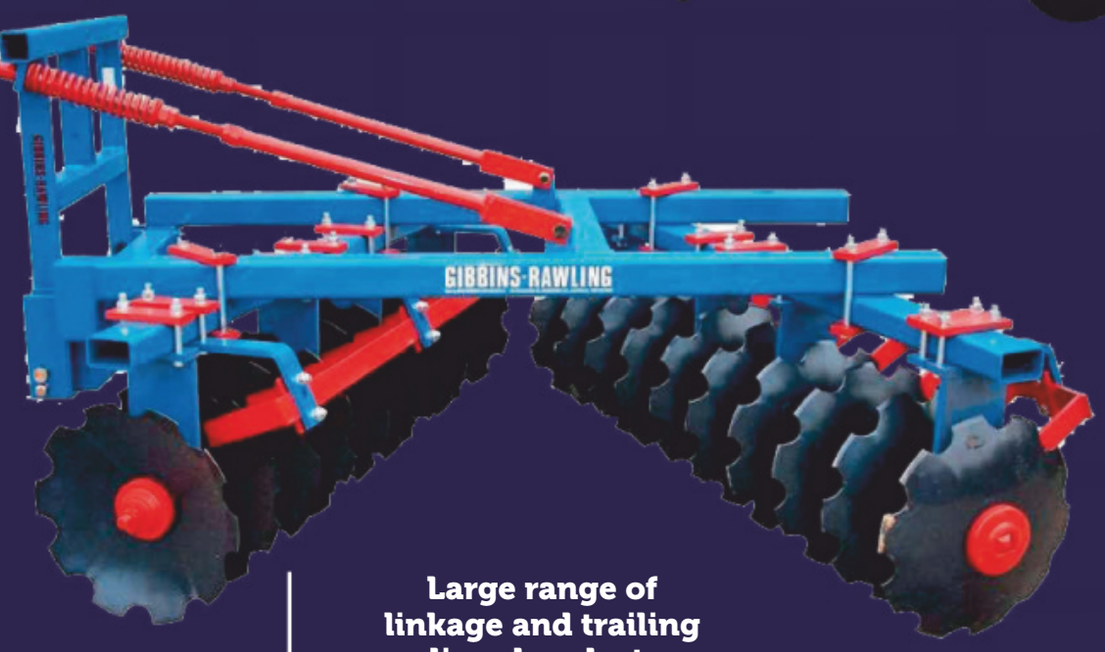

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#Hojustyle #호주스타일

How does Australia's reputation for food stack up overseas? **Andrew Hobbs** travels to South Korea to find out

The beer in question was in every bar we went to, almost every corner store, and advertised outside many of the Seoul restaurants we walked past as we crossed the city.

You might say that it's natural a journalist would be drawn to beer and any advertising that went with it – and you wouldn't be wrong – but the words on the bottle made this one stand out. Aside from anything else, it was almost entirely in English.

'Terra, from AGT' the label says – explaining elsewhere '100% real carbonated beer made from pure AGT Malt'.

Reports from the English-language *Korea Times* say Terra, launched in March 2019 by Korea's Hite Jinro Brewery, is marketed to millennial consumers "who have clear consumption habits and can generate buzz".

The TV advertising surrounding the product launch showed a young man, stuck in the city, drinking the beverage and being transported immediately to a peaceful paddock, full of golden barley blowing in the breeze underneath a bright blue sky.

AGT, the Terra label explains, stands for the Australian Golden Triangle. I am still trying to work out where that is.

A WHOLE NEW WORLD

I was lucky enough to be in Korea in September and October last year on the 2019 Australia-Korea Media Exchange, sponsored by Australia's Walkley Foundation and the Korea Press Foundation – where the organisations host four Australian journalists on a week-long tour of South Korea, and vice versa on another visit.

Our guides and hosts on the tour were Sohee Bae and Stella Choi, both employed by English language newspaper the *Korea Herald* to help run familiarisation tours such as these.

> Koreans will go to Australia and do a working holiday and they fall in love with this culture.

Both organisations support the arrangement in a bid to help bridge gaps in understanding between our two countries – arranging interviews with experts on topics of interest and showing us parts of the country that many wouldn't see.

And as we set off on the three-hour journey out of Seoul to the city of Andong, and later the Buseoksa Temple in North Gyeongsang Province, Stella and Sohee delve into the bus fridge and pass around a bag full of iced coffees – cups sealed with foil that you pierce with a straw.

"We've taken Australians around before," Sohee giggled. "We know that you need your coffee."

Our reputation, it seems, precedes us. And it's not only the fault of sleepy journalists – whether hungover or not.

Rowan Petz, the executive director at the Australian Chamber of Commerce in Korea, tells us that Australian-style coffee, and cafés, have been performing well in recent years – earning the Instagram hashtag #hojustyle or #호주스타일 – which populates countless examples of latte art across the notorious social media hub.

Hoju, or 호주, is the Korean language word for Australia.

"You see this a lot – where Koreans will go to Australia and do a working holiday and they fall in love with this culture – they fall in love with Australian culture, not so much the coffee, it is the atmosphere," Petz says.

"You can find these brunch places [in Seoul], there a quite a few of them popping up, where you can get a good smashed avo and a flat white… they still have this concept of Australia as a paradise of rolling hills and blue skies and everything is clean, green and beautiful, and they want to be part of that."

Petz is hoping that this kind of cultural clout might extend

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further across other industries, including biotech and financial services, as well as other industries.

The approach of Terra beer, he says, is an "interesting marketing tactic".

"Australia is known for being clean, safe and having a high level of quality of products," he says. "It's a Korean beer – and that shows how much power Australian branding has over in Korea," he says.

"Beef is a huge market over here and Meat & Livestock Australia (MLA) does a great job of promoting goods, but you also see a lot of agricultural goods such as wheat, barley and sugar, as well as grapes and mangoes," he says.

SELL THE SIZZLE, AND THE STEAK

On the phone from Singapore, general manager of international marketing for MLA Andrew Cox tells me that when meat is sold in South Korean supermarkets, it's very easy to buy Australian.

"Beef generally tends to be sold by country of origin in retailers, etc. rather than a third party brand, so you have Australian beef, American beef, local beef," he says.

But Australian beef marketing has something different – its own branding of 호주청정우 (Hoju Chungjung Woo), which the MLA translates as 'Australian beef, clean and safe'.

"We launched that branding around 20 years ago because we knew the market really valued trust and integrity and safety over all other attributes," he says.

It's a brand that has become "extremely well known", Cox says, adding that it can be seen at supermarkets and restaurants around the country.

"Food safety is of huge importance in export markets in Asia and Korean families are no different," he explains.

"They really want to be confident that they can trust the food that they are giving their family. We are really able to trade on the trust we have built over time with that disease-free status."

Korea's domestic beef products tend to be very expensive, he adds, with high fat meat produced that is ideal for Korean barbecue – where small slices of beef are grilled around the dinner table.

Cox says that while Australian beef was targeted at all aspects of the market, there was a strong marketing pitch for the family buyer.

"What brings it all together is the trust that consumers and the trade in Korea have with the beef that comes from Australia," he says.

TRUSTED FRIENDS

That need for safety is thrown into stark relief on the last day of our tour – where we were scheduled to visit the notorious Demilitarised Zone on the border between South and North Korea, only to be told the South Korean government had banned all travel to the area on that day.

The reason? An outbreak of African Swine Fever in China and North Korea – an incurable and highly contagious disease which, while harmless to humans, kills about 80 per cent of the pigs it infects.

Rabobank senior animal proteins analyst Angus Gidley-Baird says global demand will keep local beef and sheepmeat prices strong, with any further upside due to Swine Fever driven by an improvement in seasonal conditions as producers come back into the market to restock.

"There is considerable upside potential for prices, given livestock inventories for both sheep and cattle are at their lowest levels in over 20 years," he says.

"And it is this low stock availability that will see the market remain highly sensitive to substantial rain events."

The Swine Fever outbreak coincided with the seventh round of tariff reductions under the Korea-Australia Free Trade Agreement (KAFTA), reducing tariffs on beef from 24 per cent to 21 per cent,

Opposite: A still from the Terra beer advertisement, produced by Korea's Hite Jinro Brewery, and an advertising poster for Terra beer

Above: Apples grow, and are sold, on the path to the Buseoksa Temple. Vigetable side dishes are common in South Korean cooking.

> Australia is known for being clean, safe and having a high level of quality of products.

Above: A south Korean ricefield. Many South Korean households preserve food and cooking sauces in their own jars. Meat and Livestock Australia markets Australian beef as healthy and trustworthy for Korean families

and on lamb from 9 per cent to 6.7 per cent, while the duty free quota for malt barley increased by 221 tonnes to 11,262 tonnes.

Under KAFTA, beef exports to Korea totalled $1.37 billion in 2018, up 24 per cent from 2017 and lamb exports totalled $133 million in 2018, up 26 per cent from 2017.

"Improved outcomes across a range of key commodities, including beef, lamb, barley, cheese and mangoes, will help to protect and improve our competitive position in Korea, helping ensure Australian farmers and businesses have access to prosperous markets into the future," then-Agriculture minister Bridget McKenzie said at the time.

Back on the tour bus, after we returned from border villages that weren't affected by the outbreak, I made a point of giving Sohee and Stella a small gift I had brought from Australia – jars of honey I had bought from sellers at the Paskeville Field Days in South Australia.

And it was my turn to giggle when Stella, after thanking me and closely reading the label, asked in the tone of a person who has heard about Dropbears one too many times: "Is this real?"

"What do you mean?" I asked. "Of course it's real."

"Is this a real place? Kangaroo Island?"

Reader, I had to show her a map. It is, of course, much more real than the Australian Golden Triangle, which did pop up once again as I was putting the article together.

> Food safety is of huge importance in export markets in Asia and Korean families are no different.

In January the *Korea Times* had a follow-up story to its article on Terra Beer – this one in the newspaper's business and technology section.

It reported that the South Korean Ministry of Food and Drug Safety had banned Hite Jinro from using terms such as 'clean lager' on its promotion of the Terra beer brand, saying its use was "exaggerated" and "could mislead consumers".

The newspaper reported Hite Jinro had claimed Terra "stood out in cleanness compared with rival beers… because it was made with 'malts harvested in exceptionally clean areas in Australia'."

The ministry rejected the claim, noting that some of Hite Jinro's biggest rivals in the market (Oriental Brewery and Lotte Chilsung Beverage) also produced beer with Australian malts.

And it seems Hite Jinro got the message – with new versions of Terra emblazoned with the phrase 'Australian Genuine Malt selected by Terra'.

Though I think they may wish to rethink their subheading: 'Terra, from AGM'.

Some terms, it seems, are still lost in translation.

Note: Andrew Hobbs travelled to South Korea as part of the Australia-Korea Media Exchange.

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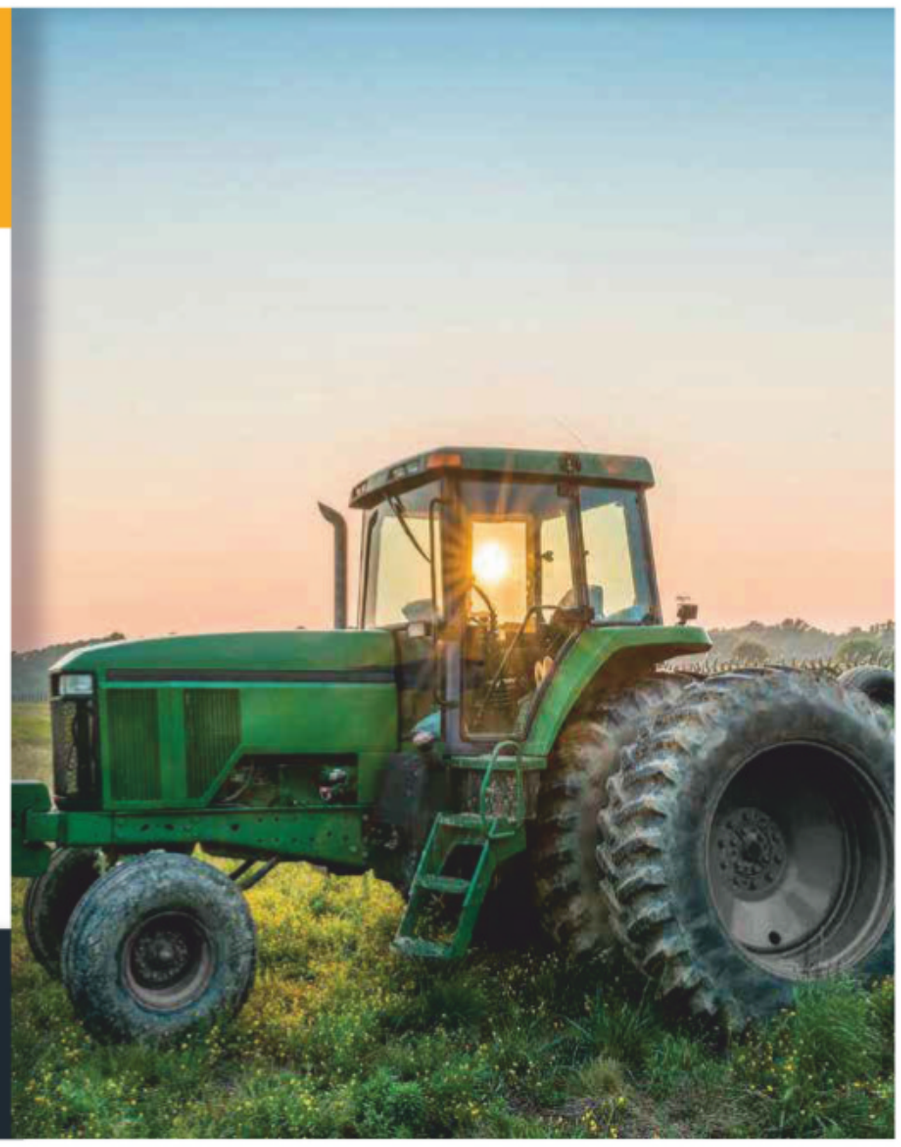

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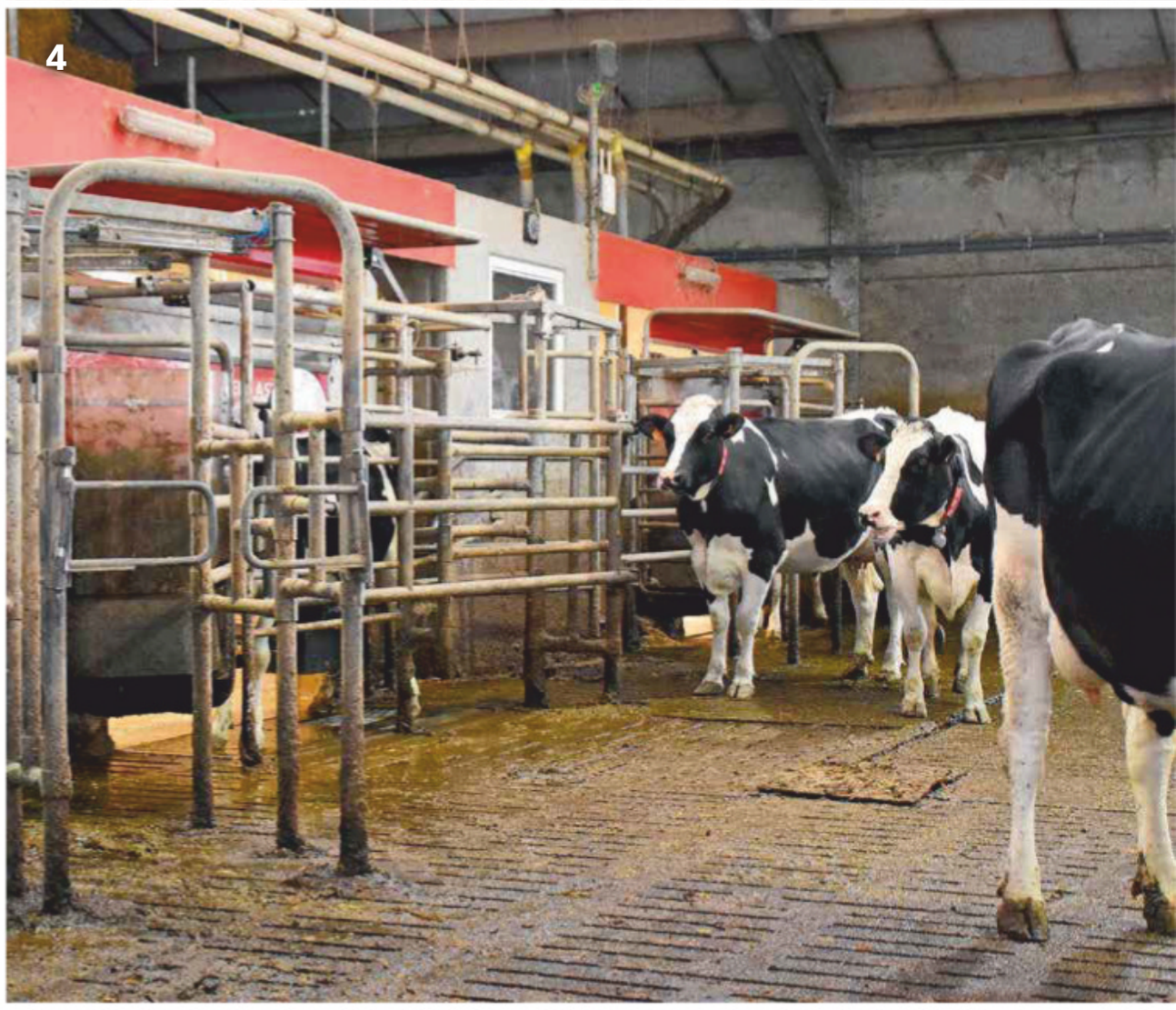
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future IS NOW

In order to stay in business, dairy farms are moving towards greater automation. **Chris McCullough** speaks to a Belgian couple who are exploring alternative ways to run their business

They have revolutionised their unit into a very high tech dairy enterprise.

Dairy farms are changing. With advances in automation technology, robots are now being used to feed and milk the cows, fill feed mixers and distribute the contents, even push the silage closer to the cows in the feed passage and scrape the manure off the slats.

These robotic appliances not only reduce the labour required, they can also collect endless streams of continuous data, which can then be used for a plethora of different management decisions.

One couple exploring how advanced technology can support their business are Belgian dairy farmer Bart Vanderstraeten and his wife Marijke d'Hertefelt, who run a herd of 130 Holstein Friesian cows on their 165 hectare Koeweidehof dairy farm at Merchtem in the Flemish Brabant area of Belgium.

The herd is currently yielding around 11,000 litres per cow per year milked on average 2.8 times per day. Milk quality is 3.6 per cent protein and 4.1 per cent butterfat.

The couple took over the family farm in 2012 when it was a mixed unit and decided to start milking cows there. Since then, and thanks to d'Hertefelt's experience growing up on a dairy farm, they have revolutionised their unit into a very high tech dairy enterprise using two Lely Astronaut A4 robotic milking systems and the recent addition of a new Lely Vector feeding system.

"Our farm was traditionally a mixed unit with beef, pigs and poultry," says Vanderstraeten.

"My wife grew up on a large dairy farm so we decided to milk cows here when we took over in 2012.

"Currently we are producing 1.4 million litres of milk per year and I'd like to increase that to 1.5 million in the near future. I feel this is possible by still keeping the same number of cows that we have now but by using technology to feed and milk the cows more efficiently," he says.

STREAMLINED EFFICIENCY

Vanderstraeten feeds his cows around 11.6kg of concentrates per 100kg of milk produced via the robotic milking machines. He also feeds a ration of about 40 per cent dry matter with his Vector automated feeder.

Most of the feed required for the herd is grown on the farm including wheat, maize and grass.

"We feed a mix of 23kg maize, 11kg grass, 10kg sugar beet, 2.5kg barley, 2kg corn, 30kg straw, two litres of water, 150g salt and 2kg of protein to the cows," he explains.

"At the moment the cows are yielding around 35 litres per head per day. I try to run the herd with 385 days between calvings and have a goal of producing 1.5 million litres of milk per year," he said.

All this technology costs money and even though Vanderstraeten works part-time for Lely selling the Vector feed system, his investment in the farm and all its robotic labour force is high.

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For example, the main cow barn with robotic milking system cost around €6,500 per cow to construct. If land is available to purchase it can cost anywhere between three and ten Euros per square metre or €500 per hectare to rent.

"If you take the €33.50 cents per litre I receive for the milk, around €16.50 cents per litre are variable costs and a further 12 Euro cents per litre are fixed costs, leaving us with around five Euro cents per litre as a margin.

"I feel investment in technology is the only way forward to ensure the herd is healthy, is being fed well and is being milked efficiently," he adds.

DIRECT DELIVERY

Not only do robots feed and milk the cows, the couple also use other innovative technology to sell some of the milk, as well as eggs and vegetables.

"We have spent a total of €24,000 on two automatic vending machines over the past seven years," says Vanderstraeten.

"Customers pull up at the machines at the farm entrance and purchase milk for €1 per litre.

"Around 10,000 litres of milk is sold via the vending machine and the remainder we send to Milcobel, who pay us 33.5 Euro cents per litre for the milk."

Milcobel is the largest dairy cooperative in Belgium, collecting milk directly from its 2,600 dairy farmer members, who are also shareholders.

The co-op has almost 2,000 employees and processes the milk into high-quality dairy products including milk powder, cheese, ice cream, butter, cream and milk drinks.

While recognising the importance of selling the milk to the co-op Vanderstraeten is also happy consumers also want to buy the milk straight from the farm.

"Selling the milk to the co-op is an assured outlet for the majority of my milk," he says.

"We put the first vending machine in seven years ago at a cost of €17,000 and the smaller one we installed just three years ago costing €7,000.

"People stop from all around the local area and further afield to buy our milk. We also sell vegetables that we grow as well as our own farm-produced eggs in the machines. It's a novelty for the consumers and we are glad they support it," he adds.

And the technology doesn't stop there as Vanderstraeten harvests the slurry produced by the cows to convert to electricity, which he uses on the farm and sells to the national grid.

"We run a 22kW biogas plant that uses all the 11,500 litres of slurry that the cows produce daily. It's a good investment as we use around 90,000kW of the total 150,00kW produced on the farm itself," he adds.

1. Milking is carried out by two Lely Astronaut robotic milking units
2. Belgian farmer Bart Vanderstraeten in the calving pen
3. The herd is currently yielding around 11,000 litres per cow per year
4. Cows await their turn for milking
5. A Lely Vector robotic feeder is used to feed the dairy herd
6. Bart refills his feeder ingredients shed about three times per week
7. Bart Vanderstraeten and his wife Marijke d'Hertefelt run a herd of 130 Holstein Friesian cows
8. Two vending machines dispense milk, eggs, fruit and veg at the entrance to the farm
9. The vending machines mean customers can buy directly from the farm gate

> I feel investment in technology is the only way forward.

BENDIGO gold

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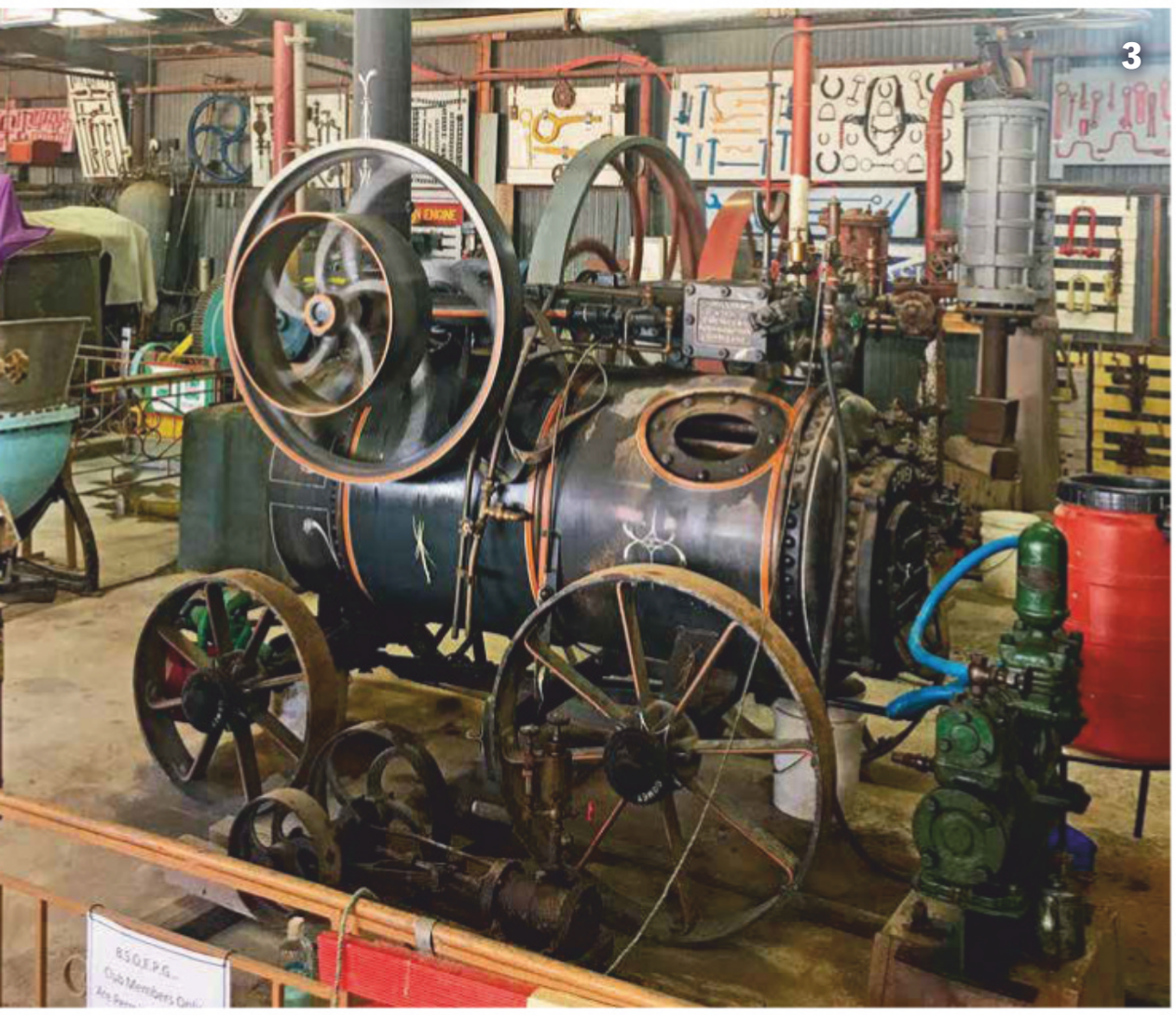

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They're large, they're loud, they run hot and they're not what you'd call efficient – but the engines maintained by one dedicated Bendigo group are things to treasure. **Andrew Hobbs** finds out more

1. The Bendigo Steam & Oil Engine Preservation Group president Will Francis with the 26hp Blackstone engine
2. The six-cylinder, 350hp Ruston Lincoln engine has quite a kick
3. Down from Queensland, this Comet engine was used to help pump water
4. This Wright & Edwards horizontal engine has stayed close to home. It was once used to power the Abbot family tannery in Bendigo

> The club is yet to operate the engine at its full power, though Francis adds that 2020 might be the year.

There's no shortage of history in Bendigo. The one-time goldrush capital is still home to some of Victoria's most beautiful heritage architecture and a good portion of manufacturing genius.

But in a corner at the far end of the city's Prince of Wales Showgrounds sits a portion of this history that might be overlooked, but is too loud to be ignored.

Founded in 1975, the Bendigo Steam & Oil Engine Preservation Group meets every Saturday afternoon to restore, repair and run a variety of engines, some dating from the turn of the century.

While you could argue that many of the shed's items are unique in their own way, there's no doubting which one is the biggest – a six-cylinder, 350 horsepower (261kW) Ruston Lincoln engine, which takes up much of the shed's back wall.

Club president Will Francis tells *Farms & Farm Machinery* the engine is one of three sent to Horsham in 1928 to drive a 220kW alternator that helped to bring electricity to the town.

"It was used there until mains power came through, and from there it went through to Dargo, up in the high country, to power a sawmill and from there it headed back to Bendigo to a soft drink company, to be used as their standby power source."

Weighing some 16 tonnes and requiring air compressed to a minimum 150psi to start, the engine stayed under wraps for six years after it was donated, until the club got enough money to install some 28 cubic yards of concrete to provide it with a solid base, Francis adds.

And, with substantial work needed to ensure it can operate safely, the club is yet to operate the engine at its full power, though Francis adds that 2020 might be the year.

"We put an airline in it about five years ago and we are looking at starting it up – we have just got a couple of things to do, and we are going to have a crack," he says.

Like its 25 active members, from Echuca to Geelong, the club's collection of engines comes from across the state, from the Hornsby Ackroyd used to pump compressed air to miners in Bendigo to the 26hp (19kW) Blackstone engine used to drive a flour mill in Maryborough before it was found, upside down, on a river bank in the 1980s.

Today the engine is fully operational, thanks to the work of the club members, and complete with its original paintwork, despite its muddy resting place.

Repairing old engines is not a job for the impatient, after all. Francis says he spends a lot of time online scouting for parts for the various engines in the shed.

"I have always got a shopping list, and what I can't find I get made," he says.

"I have found a lot of people who can reproduce stuff on the grapevine in Australia – and if I can't find it here I look to the USA, and if I can't find it there I look to England. [Restoration] is really big over there."

If you want to see some of these engines in action, make your way to the Bendigo National Swapmeet in November, or attend the club's Vintage Steam & Engine Rally, to be held at Bendigo's Prince of Wales Showgrounds on April 18 and 19 this year.

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Trimble trials turn heads

Distributor **McIntosh & Son** says demonstrations of **Trimble's Weedseeker 2 spot spraying system** have been received well in Western Australia's northern wheatbelt

Above: WA northern wheatbelt growers discussing the workings of the new WeedSeeker 2

Inset: The new WeedSeeker 2 sensors automatically adjust to the environment they are working in

> It interfaces with most existing ISOs, so there is no need for another controller.

ISOBUS compatibility and the potential better control of hard-to-kill weeds have been the big attractions of the spot spray technology offered by Trimble's new WeedSeeker 2 system.

Distributor McIntosh & Son's Geraldton representative Craig Harrington says recent demonstrations held near Mullewa, Moonyoonooka and Binnu had attracted a series of existing and potential new customers attracted by its section control and weed mapping features.

"It interfaces with most existing ISOs, so there is no need for another controller," Harrington says.

Also offered through the ISOBUS is section control and weed mapping – pinpointing where and when the WeedSeeker 2 sensors have been turning on and off and, therefore, where weeds are more dominant.

"Growers will know where they have been and what they have sprayed, which can help them target weeds. They can hit some of these areas again later and help manage weed resistance," he says.

The WeedSeeker 2 sensors can establish up to 18 individual sections along booms when installed, with growers able to alter the number of sensors per section to farming systems such as tramlining.

Existing WeedSeeker users were impressed with the self-learning sensors that provide for automatic calibration, instead of requiring recalibration whenever field conditions change.

The fact that the new compact sensors are now 50 per cent lighter made them more suitable for booms and wider platforms, Harrington added.

Their spacing along booms has widened from 38cm to 50cm, effectively reducing sensor numbers by 30 per cent.

Compared with other similar systems that have sensors spaced at every metre along booms, the 50cm spacing also provides for double the resolution when targeting weeds, which is especially valuable in situations with heavy stubble burdens.

WeedSeeker 2 also is not required to be fitted to ground-following booms. It can easily be retrofitted to most existing suspended booms.

A newly redesigned quick-attach bracket kit allows quick removal of the sensors from booms and an easy return to other spraying activity.

National distributor, McIntosh Distribution, is demonstrating the WeedSeeker 2 spot spraying system throughout WA – with growers invited to contact their local dealer to view the new features and full workings of the latest system.

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fly LIKE A G6

Proudly Australian owned and operated, sprayer manufacturer **Goldacres** boasts a full range of **self-propelled and trailed chemical sprayers** for local farmers

Above: The Goldacres 6036 Crop Cruiser is a high capacity, high clearance, and high-performance sprayer

The Prairie Pro incorporates many elements from the transport and earthmoving industries.

Boasting the tagline 'Australia's world-class sprayer', the Goldacres range of self-propelled chemical sprayers has been designed, engineered and built to operate efficiently and reliably in Australia's unique conditions, characterised by higher spraying speeds, lower water rates and generally harsher weather conditions.

The G6 Crop Cruiser is an example of the G Series of self-propelled chemical sprayers – high capacity, high clearance and high-performance sprayers suited to large-scale dry land farming and horticultural enterprises.

These sprayers are designed with efficiency in mind, with exceptional power to weight ratio, full mechanical driveline, unbeatable boom ride and the industry's best fuel economy, says Goldacres.

Goldacres' flagship trailing sprayer model the Prairie Pro incorporates many elements from the transport and earthmoving industries to ensure maximum strength, longevity and performance, such as fully bushed pivot points, air ride suspension components and dampeners, and corrosion proof painting systems.

Fully welded-in rotating positional jigs ensure accuracy, repeatability and quality and the Prairie Special trailing sprayer is available in two frame configurations: the popular 1,500–3,000L small frame and 4,000–6,500L large frame.

All Goldacres self-propelled and trailing sprayers can be fitted with Delta (Prairie Special) and Tri-Tech (Crop Cruiser and Prairie Pro) three-way suspended booms.

These booms feature three-way suspension systems, which are contour following. This suspension system works in three ways. Firstly, it isolates the spray boom from the tanker/cab chassis, allowing the boom to follow the contours of the paddock.

Contour-following booms maintain an accurate spray boom height from the spray target.

Delta and TriTech booms also feature yaw control suspension, which is the forward and backwards movement of the spray boom.

Booms without yaw control constantly over and under apply as they move forward and backwards over the target.

The final piece of the three-way suspension system is the 'boom pitch' – the up and down movement, again to maintain a consistent nozzle height from the target but also to protect the spray boom itself.

As well as a full range of broadacre, horticulture and pasture sprayers, Goldacres also caters for contractor and home and garden markets, with a massive range of smaller trailers, tray mount and three point linkage sprayers, making up around 65 models within the range.

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GOLDACRES

goldacres

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Time-tested and true

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What gives you **25 years of hard work** with consistently strong performance? Don will tell you the answer is his **Quik Spray unit**

1. Don Roderick with his original Quik Spray unit
2. The QR400 is the latest 12volt sprayer added to the range. It's perfect for UTV's and dual cab utes
3. The 9TBE twin-reel system is a favourite among spray contractors, farmers and councils for its toughness

> It's never had anything go wrong with it. It still has the original motor, which has never been touched.

The team at Quik Spray's offices in Warana, on Queensland's Sunshine Coast, were delighted to meet Don Roderick when he popped into their offices late last year.

It had been a long time – he was dropping in to repair the remote control for his Quik Spray unit – for the first time in over 25 years!

After owning his Quik Spray system since 1995 with no troubles at all, he was happy to tell the team how successful and consistent his spray system had been.

"It's still working, and this is the first time it's been repaired," he says.

"It's never had anything go wrong with it. It still has the original motor, which has never been touched. It even still has its original hose!"

Running a family property of about 400 hectares, a quarry and a successful earthmoving business in Queensland has been no easy feat for Roderick.

With undulating, steep terrain and hills that seem to get steeper every year, Roderick says the Quik Spray system has been ideal for his property.

"There are a lot of weeds between here and there," he says, pointing out the boundary line, bordered by the Conondale Ranges.

"I remember Dad saying to me, 'It'll all take the farm off you, the lantana, wild raspberries, even the trees will take it all off you.' If I stopped spraying for five years, the farm would be completely gone."

After hearing about a neighbour from Belthorpe purchasing one of the first Quik Sprays in the area, Roderick says he acted straight away.

"We saw how good his one was, and we bought one straight away. This was the biggest one we could get at the time, so we took the 9hp motor.

"It was delivered by one of the original owners, Grant Mitchell, who is still the owner and chairman, to this day. He pushed it straight off his ute onto ours. It's still working, and this is the first time it's been repaired."

With the strong pressure and remote-controlled retractable hose reels, the Quik Spray has saved him time and drastically reduced his fatigue levels while spraying, eliminating the need to manually rewind the hose.

"I did one season without the automatic rewind and that was a nightmare!" Roderick says. "The hose is a fair bit shorter now, less than 100 metres. Occasionally it has gone across the exhaust pipe and burnt off."

Roderick has a spray-dedicated vehicle which has been used primarily to scale the steep, rough terrain around the vast property.

"Ever since we bought the unit brand new, it was bolted on to this 1976 International and it's never been off," he says.

The seats and interior were stripped out and plastic chairs used so Don could stand up in it to spray, without chemical soaking into the seats. It regularly gets hosed down after it has been used.

"Everything that's underneath it that could get torn off, is long gone and there's no exhaust pipe, nothing! All it's got is the engine and a good set of brakes. That's all you need!" he says.

Not only has the Quik Spray system proven its worth in the battle against weeds, but it's also come in handy for controlled burns during fire season.

Roderick was so thrilled with the high-pressure performance of the spray unit that he even uses it to degrease his work trucks, simply by filling the tank with water and increasing the pressure.

"Everything still works, and it's certainly proved its worth over the years," Don says with a chuckle.

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Meet Don. He purchased his Quik Spray in 1995. After calling in to see us, we realised his unit had hardly any repair work done in 25 years! It still has the original hose and it's never missed a beat. That's the Quik Spray difference and the reason we're **still Australia's most trusted sprayer.**

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Left: All new purchases of RoGator C Series self propelled sprayers will come with access to a package of Farmers Edge hardware

logical move

Croplands' RoGator sprayer range is getting an additional technology boost with a limited-time **free digital tools offer from Farmers Edge**

RoGator sprayers have an impressive list of features designed to drive on-farm productivity and profitability – and now it is giving farmers and spraying contactors the chance to go further, with a unique offer from digital agriculture solutions company Farmers Edge.

Until May 1, 2020, all new purchases of RoGator C Series self propelled sprayers will receive exclusive, free access to a suite of Farmers Edge hardware and tools valued at $70,000*.

Farmers Edge digital farming solutions combine paddock-centric data, daily satellite imagery, easy-to-use software, predictive modelling, digital agronomy and advanced analytics to transform data into actionable insights.

Pair this with the accuracy and efficiency of the RoGator C Series and you have a mighty set of tools to power your farming operation, says Croplands.

Key to RoGator's accuracy is the LiquidLogic application system, which offers individual control at each nozzle body through 35 sections of the boom – helping operators better target the spray as well as offering more precise rates and a more effective cleanout.

Croplands southern regional manager Steve Ross says LiquidLogic plumbing creates consistent pressure across the boom – meaning droplet sizes are consistent across all nozzles.

"There is only 1 psi, plus or minus across the boom, which is a huge advantage in the plumbing system and makes the accuracy in spraying so exact. It's by far the smartest applicator on the market," he says.

Also making life easier for the operator is RoGator's revolutionary SmartDrive system, which links the tractor management system (TMS) and drive functions to control both engine RPMs and hydrostatic drives for efficient operation in even the most undulating of country.

RoGator owners from around Australia have reported extensive fuel savings, with an average of 23 per cent when compared to the previous RoGator B Series as well as reduction in wear and minimised operator fatigue.

With these and many other features, RoGator sets a new benchmark for professional spray application.

*Terms and conditions apply. Purchase Croplands RoGator C Series Sprayer by May 1, 2020 to qualify. Farmers Edge services will cover an area of up to 5,000 ha per year over two years. If a grower wishes to nominate more than 5,000 ha's of Farmers Edge services, these can be purchased directly from Farmers Edge at exclusive partnership rates.

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precise selection

Hardi's H-Select system offers precise speed, rate and droplet control for large spray booms

As spray booms continue to grow, now reaching 54.5m and beyond, operators are enjoying being able to cover more ground in the available weather window in a short period of time.

However, the tip-to-tip speed difference across a wide, turning boom is also driving the need for a fast, precise nozzle control technology.

As Hardi Australia's product manager for large sprayers Steve Lancaster points out, the outer tip of a 48.5m boom travels considerably faster than the inner tip in every turn – leading to significant under- and over-dosing around headlands or any obstacle in the paddock.

"Hardi solves this problem by combining multi-tiered spraying with its H-Select system to provide accurate target rate control over the widest possible speed range," he says.

The H-Select system calculates the speed of the sprayer and co-ordinates up to four different nozzles on each nozzle body to spray accordingly at the required target rate across the boom and speed range.

This rapid, blended switching between nozzle combinations means H-Select can achieve a target rate accuracy of 90 per cent or better over the entire paddock.

The nozzle switching is controlled by a solenoid-activated air pressure system, which also enables constant fluid recirculation and lets the boom be operated in unlimited sections, though 18 sections is standard.

Lancaster adds that the H-Select's nozzle combinations ensures the operator can set droplet sizes at a precise amount and be confident they will not change with rate adjustments.

That said, the operator can also adjust the droplet size throughout the day to manage wind speed, temperature and humidity changes, he says, using Hardi's complementary Nozzle Watch desktop application for Windows PCs.

"Farmers can also use a coarse droplet to spray the paddock perimeter, then change to a finer setting once they're away from the fence lines," Lancaster says.

"We believe the combination of air switching and multi-tier nozzle selection makes H-Select an effective nozzle control technology for booms 36 metres and above," he says.

The H-Select system is available on Hardi Rubicon and Saritor 62 Active self-propelled sprayers as well as the Hardi Commander trailed sprayers.

■ **You can get an overview of Nozzle Watch through a video hosted by HARDI's territory manager for Queensland/Northern NSW, David Wooley. Just search for "HARDI Australia" on YouTube.**

Main: Hardi's H-Select system provides accurate target rate control over varying speeds

Inset: Up to four different nozzles can be co-ordinated to spray at the target rate

Left: The Keltec Bale Slice is designed to remove the hassle from the way wrapped bales are fed

The **Keltec Bale Slice** makes short work of unwrapping and cutting bales, making feeding a piece of cake

Jumping in and out of your cab to remove plastic and net wrapping from round bales is a thing of the past with the Keltec Bale Slice.

Keltec's patented system removes the plastic wrap and netting from the bale while slicing the bale in half, speeding up the operation of feeding.

It does this by bringing a blade through the bale from bottom to top, ensuring that both halves of the plastic wrap are the same length while also making sure the tail end is not caught and dragged into the cut feed or wagon.

The design helps create maximum productivity and reduces costs by enabling the operator to do the least amount of work possible while sitting in the seat of their tractor or telehandler.

Australian distributor Gendore says Keltec's system of grab, cut and removal is all controlled by one double acting hydraulic service, which makes it perfect for loading mixing wagons, ring feeders or forage wagons.

A secondary gain from using a Keltec Bale Slice is the ease with which a forage wagon or mixing wagon can process the cut bale.

Once the bale is sliced in half it moves very quickly through the mixer, reducing mixing time and power consumption, saving you both fuel and time.

The Keltec Bale Slice can easily save up to two hours per day in peak feeding times, Gendore says.

Add to all this the advantage of being able to use the incorporated fork, which makes light work of odd jobs around the farm, and you have a truly versatile implement.

The Keltec Bale Slice was named the best unpowered machine at Farm World 2013, in Warragul, in awards held by event organisers and the Tractor and Machinery Association.

- **Keltec Bale Slices are available through an Australia-wide dealer network. For more information or to locate your nearest dealer call Gendore on 1800 GENDORE (1800436367).**

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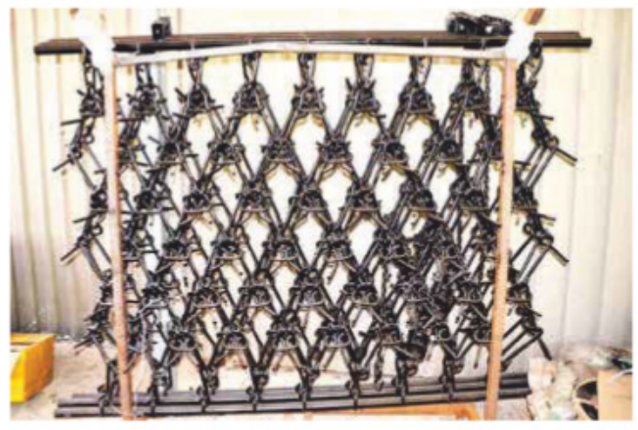

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Some of the best ideas and inventions stem from the simplest ideas, particularly when inspiration is taken directly from nature. *Farm Trader NZ*'s **Mark Fouhy** reviews the new **GiANT 6004 wheel loader** from **Tobroco**

COMPACT giant

1. The 6004 GiANT with full cab option
2. Flashing beacons and reversing camera are some of the safety features available
3. There's been a tidy set-up of hydraulic hoses for third service functions
4. Discussing bolt-on extra ballast options
5. Easy access to rear-mounted engine

Images by Justin Bennett

The GiANT 6004, designed and made by Dutch compact loader manufacturer Tobroco, is an excellent example of the 'keep it simple' philosophy. Behind the name 'GiANT' is a double meaning: not only is it a representation of size and strength but it also incorporates the word 'ant', with this humble insect known for its ability to work and carry up to 5,000 times its own weight.

GiANT loaders are an upscaled version of these incredible insects, designed for efficient lifting and for carrying of a wide variety of objects. The Tobroco GiANT loader brand hasn't been on the scene in this part of the world for as long as some other agricultural and industrial brands, however, it's quickly establishing a reputation for compact loaders with high capacity to handle large workloads.

Coupled with the reliability of using some of the best names in the business (components used in GiANT machines include Comer axles and Bosch Rexroth hydraulic components), the majority of GiANT loaders run Kubota engines (they also have an electric version available). Kubota are leaders in diesel engines for smaller industrial machines, and the fact GiANT are producing loaders for Kubota, leaving the factory branded as Kubota machines, is a fairly high testament to the quality of these loader.

TEST

To put one of the machines through its paces for our test review, we headed to Elite Dairy Goats at Manawaru between Matamata and Te Aroha. The team from Te Aroha Tractors, local NZ dealers for the GiANT brand, had earlier delivered a 6004 GiANT, one of the larger models available from the 36-model range of loaders.

With several months' work under its belt, the new machine had clocked up more than 500 hours and already more than proved its value to the smooth running of a variety of tasks.

The Elite Dairy Goats team reckons it's a daily time-saver for staff; far more capable and suited to required tasks than the old small tractor and loaders it replaced.

Reliability is one of the key attributes of the new GiANT machine and the fact it's easy to maintain is a definite bonus. With easy access to grease nipples and daily service points well thought out, the fold-out rear engine cover for radiator and air filter cleaning means daily and weekly checks and servicing don't take long, so are more likely to get done regularly.

Oil and hydraulic filters are on the right hand side, and GiANT has located the hydraulic tank at the rear, with the diesel tank under the centre of the machine, helping keep it stable and avoiding variation between a full tank to empty over the course of a full day's work.

At current workload and 250-hour service intervals, Elite Dairy Goats' machine will require four services a year.

Since arriving on farm, the GiANT has filled the role of not only the small tractors it replaced but has also taken on some of the work that was previously the domain of the telehandler, such as scraping out waste feed from sheds and loading the mixer wagon.

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With a reach of 4.3 metres, thanks to the telescopic boom and arm, and a maximum lift capacity of 2,000kg, a bale of silage proves absolutely no trouble. In fact, two bales at a time is possible, so long as the machine is weighted up correctly.

GiANT loaders feature fixed loader arm models as well as the telescopic version, such as is fitted to our test machine. Bjorn from Elite Dairy Goats has also found that the telescopic reach is sufficient to allow him to load the muck spreader directly from the shed, once again helping save time and the need to use the larger telehandler.

A particularly great feature of the GiANT loader is the fact extra ballast can be bolted to the rear and underneath for greater lift capacity. The test machine had 500/45-20 tyres fitted, which are larger than standard, and add to the stability of the machine. It also had a liquid lime solution added to the tyre ballast, which is supposedly better than water.

With around 2,500 goats to milk twice a day and feed, and a total of 4,000 goats on the farm, including replacements, all fully housed, work needs to be done as efficiently as possible to enable the team to get through all the jobs required. The addition of the GiANT 6004 to the farm team has made a considerable impact and is an excellent example of how having the right tool (or machine) for the job allows you to work smarter, not harder.

OPERATION

The beauty of the GiANT 6004 loader is that, as the name suggests, it's designed to be a loading machine, so operation is designed around this purpose, with all key functions close at hand. Like most modern loaders, all loader controls are built into the joystick – an electro over hydraulic unit in this case. Forward reverse shuttle is also found on the joystick, allowing the operator to leave their left hand on the steering wheel.

Given that it's designed as a compact machine, the cab isn't overly large but it's functional and with air conditioning and heating options, is certainly the place to be on cold winter mornings or hot summer afternoons. If your budget doesn't stretch to a full cab, there are variants of ROPS cabs available. Tobroco produces both fixed boom and telescopic booms. Like the Elite Dairy Goats machine, the telescopic loader boom gives the benefits of a telehandler with excellent visibility of the corners of the bucket.

With pivot steering, visibility is not compromised and with the driving position above the engine, rear and side vision is excellent. As an added safety measure, a rear-view camera can be fitted as an option.

Hydraulic locking of attachments is standard on this model. This is a two-step process that requires both hands (for safety reasons). Like other loader brands, sensors are built into the hydraulic systems to ensure the machine operates within its limits.

ENGINE/HYDRAULICS

As mentioned briefly, the GiANT 6004 runs a Kubota engine. In this model, a four-cylinder turbo charged unit produces 60

Pros

- Power to size/weight ratio – plenty for its size
- Hydraulic Euro hitch
- Factory customisable
- Easy access for servicing
- Great all-round visibility

Cons

- Max speed 28km/hr

The versatility of these nimble yet high capacity machines makes them suitable for a huge variety of tasks and industries.

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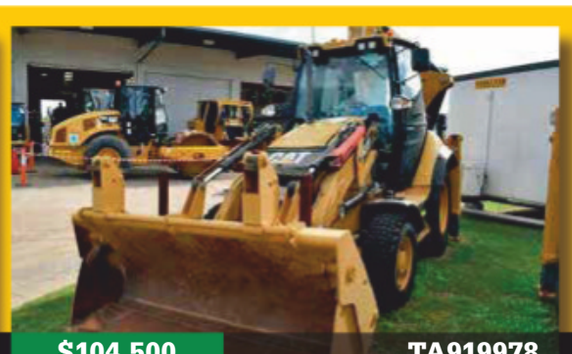
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GiANT 6004T Teleloader

Engine	4-cylinder, turbo charged
Output	60hp/44kW
Trans	Hydrostatic, 2 range, electric shuttle
Max speed	
Range 1	0–10km/hr
Range 2	0–28km/hr
Max lift height	4.3m
Length w/out bucket	3.9m
Width on std tyres	1.4m
Lift capacity	2,000kg
Service weight	3,850kg
Hyd flow/pressure	
Driving	121.5L/ min@5,000psi
Working	67.5L/ min@3,100psi
Standard tyres	12.0/75–18 TR11
Diesel tank	68L
Service interval	250 hours

6. Joystick control of boom and forward/ reverse functions
7. Excellent visibility from the driver's position
8. Manoeuvrability is easy, thanks to pivot steering
9. Euro hitch headstock with hydraulic attachment coupling

horsepower (44kW), which in tractor terms is well and truly on the smaller end of the scale. However, the benefits of a purpose-designed machine suited to specific jobs is obvious here, with this compact teleloader proving more efficient and manoeuvrable than a clumsier larger tractor front end loader set up. I would also expect to start saving straight away on daily fuel running costs.

The GiANT gets away with a small engine, as a compact wheel loader is similar to a tracked excavator, where hydraulic flow is the most important factor. Hydraulic performance being key; Tobroco has not cut any corners here, opting for the high quality German-made Bosch equipment.

The hydraulic pump runs the two-stage hydrostatic drive transmission as well as the working function for the steering and boom.

Running a single pump with a maximum 121.5L per minute available for driving, at 5,000psi an electric proportional solenoid valve will make 67.5L per minute at 3,100psi for working functions as required. The two-speed hydrostatic drive transmission is smooth, as would be expected. Range 1 gives a 0–10km/h working range, providing plenty of power for heavy pushing work. With full-time 4WD, you don't have to worry about remembering to select 4WD. Front and rear axles have electronic locking diff should it be required.

Range 2 gives operating speeds of 0–28km/h. While it may seem slow, don't forget that most often on farm, the time spent operating over 15–20km/h is probably not that much, especially when operating fixed axles without boom suspension on small tyres.

STEADY GROWTH

Manufactured in Oisterwijk, Netherlands, GiANT has grown from its initial small beginnings in 1996 to an impressive product range now consisting of skid steer, wheel and telescopic loaders, and telehandler machines. By 2014, the brand had produced 10,000 machines and 25,000 attachments. Now available around the globe, GiANT machines are solely distributed in Australia by Delta Equipment, based in Unanderra, NSW.

The versatility of these nimble yet high capacity machines makes them suitable for a huge variety of tasks and industries.

The attachments available ex-factory from GiANT are many and varied. For me, the fact you can spec your machine with a euro hitch, which the majority of other farm loader attachments in Australia are, is a huge plus. This means if you have an existing collection of attachments, they can be utilised.

Add to that the hydraulic coupling, which means that if you're regularly changing bucket to forks, for example, this can be done without leaving the operator seat – another timesaving efficiency.

Like many tractors and trucks, if you know exactly what you want your machine for, you can sit down with your dealer and build your machine to the specs required, just like Elite Dairy Goats has done. Opting for the fully enclosed cab, air conditioning, wider tyres, and reversing camera to further enhance the safety of the machine on such a busy farm, it got the machine it wanted correctly spec'd for the jobs needing to be done.

Other options can include a custom paint job to match business branding, safety features such as the Stabilo System, and boom suspension through accumulators are available should you want them (these are particularly helpful when operating in rough terrain).

VERDICT

After spending the day with the GiANT 6004 at Elite Dairy Goats, I am impressed at the capabilities and variety of models and accessories available. With so many options and specification levels on the menu, Tobroco is also happy to build an individual machine to suit personal requirements. These days, where efficiency and bang for buck are vital to the success of farming as a business, I reckon this ticks all the boxes.

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HIP TO feed squares

With heavy rains in the lower South and droughts everywhere else, **Jaiden Drought**, our man in New Zealand, says livestock feeding is in full swing. What better time to test Hustler Equipment's new MINT edition mounted **chainless LX104 round and square bale feeder**?

Chainless feeders have been around since the late 1990s, when Hustler's original chainless 2000 was introduced and proved to be so popular it is now shipped all over the world. Luckily, farmers are spoilt for choice when it comes to bale feeders so the first questions that need to be asked are: what is a chainless? Why would you buy a chainless? And is it worth the price premium?

WHAT IS A CHAINLESS?

As the name suggests, it is chainless, so no more oiling chains, worn drive sprockets, bent slats and net wrapped around every nook and cranny. The additional benefit of the double rotor design is that it allows the bale to be teased out rather than feeding it faster by simply increasing the chain speed on a traditional feeder.

The teasing effect is beautiful to watch and is well designed. It works with the top rotor spinning three times faster than the bottom rotor. The bottom rotor benefits from both vertical and horizontal teeth, which provide the drive for even the ugliest bales. Meanwhile, the top rotor only has the vertical teeth and the protection of the wrap around wiper guard, which stops exactly that – without it, feeding long stringy hay can be problematic.

This teasing effect also results in a nice fluffy row and a much more consistent feed pattern through various bale types, whether it be ugly silage bales, square bales, tight hay bales or loose straw bales. Regardless of the fluffiness in terms of aesthetics, this thin fluffy feed pattern means the cattle will waste less as with the big clumps you are guaranteed spoilage from trampling and manure contamination.

WHY BUY?

The chainless is a more complex feeder, both in design and operation, as you've got more than one thing going on. With a normal chain feeder you can feed both sides as the bale unrolling one way or the other realistically doesn't matter.

This of course is unless you've got a lot of time on your hands like my fellow tester and beef farming extraordinaire Brent Lilley. He uses striped Tama net in his baler and then studies the pattern on the net wrap to figure out which way the bale will unravel on the bale feeder.

To be honest, that thought has never entered my mind,

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but that's what makes him such a thorough tester of farm machinery.

Back to the chainless – so it's slightly more complex, because you've got two things happening. You've got the table and the rotors, each on a separate hydraulic remote (plus the hydraulic toplink, so three remotes).

The table allows you to place the right amount of pressure on the bale to the teasing rotors, but if you bring it up too fast the bale can tip over the edge. However, if you had the chain feeder going too fast, and it caught the bale, the same thing could happen, so that's not an indication of a design flaw on the chainless.

During the test we fed a variety of fixed chamber and variable chamber round bales as well as square hay bales. Each fed out slightly differently; as many are aware, each type has their challenges, but we never had any issues with the feeder struggling to cope.

THE CHAMBER

Over 20 years of evolution of the chainless system, the chamber itself has become deeper. This means that the cradle can be brought up on a steeper angle for those ugly soft heavy silage bales, along with the unreal ability to tease biscuits out of square bales and the ability to feed variable chamber bales out continuously to the end. Even with a hard core bale.

There is an upgraded tooth design on the top roller, but we suspect it is in the deeper cradle where the secret lies. You can really get that platform angle over 90 degrees to put pressure on the bale core against the rotors without holding it simply against the top rotor, where it is as at risk of being flipped off. This would make bales on steep country much easier and safer to feed out.

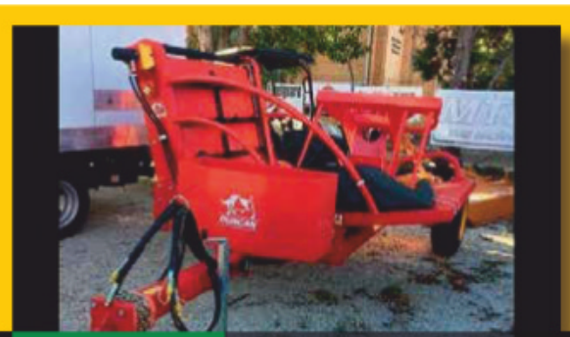
THE HEADSTOCK

The headstock itself is another nifty innovation which impressed us when we tested the SL360X bale feeder where Hustler's patented snaplock system means there's no ropes. As soon as the bale feeder is put on the ground the latches unlock; you can simply drive out without worrying about ropes pulling out of the back of a cab or dangling along the ground through the mud and you having to retrieve them. The system works really well.

The compact headstock also has the integrated lifting mechanism for the cradle, which is easy to see from the cab

1. The chainless baler handled all kinds of bale with ease
2. Hustler's snaplock system means that when the baler is put on the ground, the latches automatically unlock
3. The loader/telehandler hitch mounted option allows for feeding over the fence into a mixer wagon
4. The bottom rotor benefits from both vertical and horizontal teeth, which provide the drive for even the ugliest bales
5. With a deeper cradle, a greater angle can be achieved to put pressure on the bale core

This teasing effect also results in a nice fluffy row and a much more consistent feed pattern.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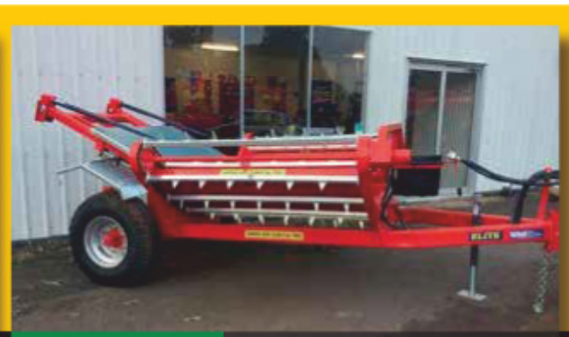
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6. The chainless has an impressive ability to feed square bales one slice at a time

7. Though there aren't any chains, it is a more complex system requiring two valves

8. Round of square, loose or hard, this baler can handle them all

Pros

Smart looking machine
Well thought out and engineered
'Snaplock' system has no ropes
Will feed any sort of bale you can get onto the cradle
Deep chamber allows the cradle to put pressure on the core feeding right until the very end
Impressive ability to feed square bales, one slice at a time
Bottom drive roller teases the feed up to the top roller, which spins three times faster, creating the fluffy swath and reducing feed waste
Compact headstock and strong drive
Can be loader mounted allowing feeding over fences, into feed rings, etc. Running it on a loader is more complex as you need two valves (there is a changeover solution for this)

Cons

More complex to operate as you have to manage two things, the cradle and the rotor
Unlike most chain feeders you can't back in each end

when lining up for re-hitching. Speaking of re-hitching, the high tensile prongs are a breeze for loading round and square bales into the cradle if you using a tractor with no loader, and for rookie drivers like myself, one is longer than the other and the holes are much larger than the tine itself, allowing for easy lining up.

As balers are becoming more capacious, resulting in bales becoming heavier, there is a growing need for a stronger, more powerful drive. On the LX the drive unit again has been beefed up with a 40 per cent increase in drive capacity. Another nifty feature was the cut out in the headstock with a sticker that shows an indication of where the cradle should be set at for the start of feeding for round bales and square bales. This allows the drive rollers to be started and feeding to commence without the risk of flipping the bale straight off.

HITCHING OPTIONS

A feature we are a big fan of is the loader/telehandler hitch mounted option, which allows for feeding over the fence into a mixer wagon or feeding different types of feeds such a straw to cattle in barns when you don't want to run it through the mixer wagon.

Being able to get the feeder higher makes feeding into cattle rings and over fence lines in the winter or in crop paddocks a doddle, though an additional 400mm feed shoot if feeding into bins or over fences would be a welcome addition.

VERDICT

It has taken me a while to get to the answer of the last question of whether this is worth the price premium.

Arguably, bale feeders are quite expensive for what they are, but there is an intricate amount of engineering that goes into them. As you may well be aware when driving around the countryside, bales literally do come in all shapes and sizes. It therefore needs to be a machine to feed them all.

If you feed rounds and only one square bale per year, you should buy a chainless. They're unrivalled in their ability to feed square bales. It's uncanny how the teasing rollers feed rounds and can take single biscuits off a square bale, which is strangely satisfying to watch.

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Images by Alastair Brook

There's no doubt the V6 EcoDiesel is the pick of the range for those who need to travel long distances between fuel stops.

Eats utes for breakfast, drinks fuel like a sailor? Well, not quite, because when we tested the 5.7-litre Hemi V8 that exclusively powered the Ram 1500 pick-up until now, it proved surprisingly frugal … for a huge petrol donk, that is. But with the recent release of the Ram 1500 Laramie V6 EcoDiesel to the Australian market, you can now have your big slice of American pie and eat it too.

Sure, some of the charm of driving around in a Ram 1500 is the fact it has a stonking great V8 under the 'hood' that pumps out a more-than-handy 291kW (395hp in the old language), but for those who can live without that top-end poke and the sweet V8 soundtrack, the new 3.0-litre V6 diesel engine is a more-than-worthy Ram powerplant.

POWERTRAIN AND PERFORMANCE

The EcoDiesel is essentially the same VM Motori 3.0-litre V6 turbo-diesel engine that powers other FCA products including the Jeep Grand Cherokee, and the obvious benefit in choosing the oiler over the petrol V8 is the former's better fuel economy, which brings much greater touring range – no doubt attractive to those who intend to tow a large 'van and the like over long distances.

This diesel is no one-trick pony; as well as impressive fuel economy it also packs a decent punch in the torque stakes, producing a meaty 569Nm at 2,000rpm. By contrast, the Hemi V8 only makes 556Nm at a considerably higher 3,950rpm. Yep, for those who have heavy loads to carry and/or big trailers to haul, the EcoDiesel suddenly starts to make a lot of sense.

Like all Ram 1500s, the V6 EcoDiesel is an auto-only proposition, scoring the same eight-speed TorqueFlite transmission as the Hemi V8, with the same gear ratios. Even the final-drive ratio is the same 3.92:1 offered with the Hemi V8 for those who want a 4,500kg towing capacity, but in the case of the EcoDiesel the maximum braked towing capacity is limited to the class-average 3,500kg. For the record, the third option in the Ram 1500 line-up is the Hemi V8 with a taller 3.21:1 final drive ratio, and like the EcoDiesel this model has a 3,500kg towing capacity.

The Ram 1500 runs a selectable on-demand full-time 4x4 system operated via small buttons on the dash below the gear-selector dial, allowing the driver to choose between 2WD, 4WD Auto, 4WD Lock and 4WD Low.

At $109,950, the Ram 1500 Laramie 3.0L V6 EcoDiesel doesn't come cheap – that's a full $10K more than the equivalent Hemi V8 1500 Laramie – but like its petrol-powered stablemate it's packed with creature comforts and standard equipment.

The Ram 1500 Laramie is also a lot of ute for the money, measuring 5,817mm long and 2,017mm wide, with a long 3,569mm wheelbase. And while its relatively modest 735kg payload doesn't match dual-cabs like the Ranger or Hilux, the Ram's tub is enormous at 1,712mm long, 1,687mm wide and a full 1,295mm between the wheel arches.

ON-ROAD RIDE AND HANDLING

Climb aboard the Ram 1500 and fire up the engine and one of the first things you notice is just how quiet it is. There's no diesel clatter at idle and even a blip on the throttle results in a muffled response. There's no doubt about it: the V6 oiler is one of the smoothest turbo-diesel engines around, and the Ram adds to this feeling of refinement thanks to an abundance of sound-deadening material that ensures the cabin is whisper quiet, even at freeway speeds. Sure, there's a hint of wind noise around the mirrors, but it's nothing too intrusive, and road noise is also well-suppressed.

Performance isn't what you'd call scintillating, but the V6 EcoDiesel Ram ain't no slouch either. Ask it the question and it

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01
COMFY PEWS

The power adjustable leather front seats score lumbar adjustment, heating and ventilation.

02
LEFT TO RIGHT

Vital controls have been shifted with the conversion to right-hand drive and are within easy reach.

03
CHROMED UP

Those big, shiny 20-inch alloys wear Hankook 275/60R20 HT rubber with an on-road tread pattern.

04
SUPER SOUND

The Alpine sound system is excellent and the Ram has Apple CarPlay and Android Auto.

05
IN THE BACK

Rear-seat passengers get loads of space, heated seats, air-con vents and a 12V power socket.

answers with linear acceleration, pulling all the way from idle to the 4,500rpm redline, where the auto will smoothly grab another gear that sees the Ram continue on its way. You need to keep an eye on the speedo on the open road because the unfussed and quiet way in which the Ram goes about its business could soon see you exceed the speed limit without realising it.

Like most of the dual-cab 4x4 utes on the market the Ram 1500 has independent front suspension, but you won't find leaf springs on its live-axle rear-end; instead there's a live-axle with coil springs, which no doubt aids the impressive unladen ride quality. Even as road surfaces deteriorate the Ram remains composed and predictable, with the electric power-assisted steering offering good feel and feedback.

You could be forgiven for thinking a vehicle this big wouldn't be much chop on crook secondary backroads, but again it surprises with its impressive ride quality and assured handling. Push it through corners and it holds its line nicely with minimal body roll, and it doesn't get unsettled by minor mid-corner steering corrections.

Those big 20-inch rims wear 275/60R20 Hankook Dynapro HT tyres that offer a reasonable sidewall, which no doubt aids ride quality; on the road the tyres provide plenty of grip and surefootedness when cornering, without generating too much noise. They also work well on gravel roads, and slipping the Ram into 4WD Auto ensures there's plenty of traction on slippery road surfaces.

If you're used to driving a dual-cab ute, the Ram 1500 won't feel all that big when driving around town … until you try to park it, that is. Yep, it's certainly long, so you'll need to choose your parking spaces wisely. However, a decent steering lock results in an acceptable 12.1m turning circle, and deep windows and big mirrors aid outward visibility.

Claimed fuel consumption is an impressive 11.9L/100km and (unusually) we bettered that on test, recording an impressive average of 9.6L/100km over 800km of commuting, highway, freeway and backroad touring, as well as a modicum of sand driving – when you consider the Ram 1500's size and its brick-outhouse aerodynamics, that's some seriously impressive fuel economy. By comparison, when we recently tested a Ram 1500 Hemi V8 with the same 3.92:1 final drive ratio, it recorded 17.6L/100km. With a generous 98-litre fuel tank, the diesel Ram should do a shade over 1,000km between refills compared to just over 550km for the petrol model.

The third Ram 1500 Laramie option – the Hemi V8 with a taller 3.21:1 final drive ratio – has a claimed combined fuel consumption figure of just 9.9L/100km. However, a real-world figure would likely be closer to 14L/100km unless most of your driving was on the freeway, so there's no doubt the V6 EcoDiesel is the pick of the range for those who need to travel long distances between fuel stops.

OFF-ROAD

With limited approach and ramp-over angles, off-road performance is not the Ram 1500's forte, but having said that, it has reasonable ground clearance and vital underbody components are tucked up and out of harm's way, as well as protected by a series of crossmembers and bash plates.

Not wanting to damage the unprotected sills (side-steps are optional on this model) we took it pretty easy off-road, with a run along some soft river sand and a few rough bush tracks. Even with tyre pressures dropped to 16psi, the Ram wasn't all that happy in the sand with the transmission left in Drive, as it wanted to upshift too early, resulting in a loss of momentum. Manually shifting using the buttons on the steering wheel improves sand performance markedly, but there's no getting away from the fact that this is a big, heavy truck with a hefty 2,715kg kerb weight.

Despite the limited off-road angles, the Ram offers decent wheel travel up front and impressive axle articulation at the rear, and if you exceed that, the electronic traction control works well at arresting wheel spin despite the road-oriented highway-terrain tyres. Low-range gearing is excellent, with an overall reduction in first gear of 48.7:1.

CABIN AND ACCOMMODATION

There's plenty of space inside the Ram 1500 for all occupants, but taller drivers might find head room a bit tight and the driver's footwell is cramped due to an intrusive transmission hump. Nevertheless, the driver's seat offers a good range of power adjustment and nice lumbar support; there's pedal adjustment and the steering wheel offers tilt (but no reach) adjustment. The front seats are heated and ventilated, while the rear seats

Ram 1500 Laramie 3.0L V6 EcoDiesel

Engine	DOHC turbo-diesel V6 24-valve
Cap	2,988cc
Max power	179kW at 3,600rpm
Max torque	569Nm at 2,000rpm
Gearbox	8-speed automatic
Crawl ratio	48.74:1
4x4 system	On-demand 4WD with low range
Const	4-door cab and tub on ladder chassis
Front susp	IFS with coil springs
Rear susp	Live axle with coil springs, 5-link
Wheel and tyre	20-inch alloys with 275/60R20 HT tyres
Kerb weight	2,715kg
GVM	3,450kg
Payload	735kg
Towing cap	3,500kg
Seating cap	5
Fuel tank cap	98L
ADR fuel cons	11.9L/100km
On test fuel cons	9.6L/100km

For those who want a turbo-diesel Ram 1500 Laramie, the wait is finally over.

1

2

3

Main: Ask it the question and it answers with linear acceleration, pulling all the way from idle to the 4,500rpm redline

1. Spray-in bedliner is standard
2. Loads of cabin space
3. The EcoDiesel V6 makes loads of torque, and is refined and economical

offer heating only. The generous cabin means there's plenty of storage throughout including a wide centre console with large bins and a double glovebox, and there are a number of 12V power outlets and USB ports.

You'll easily fit three adults across the wide rear seat, and they'll all be pleasantly surprised by the leg room on offer, as well as the rear air-conditioning vents. The split rear seat bases fold up and there are pullout platforms that provide a flat load area, so if you haven't filled the rear with occupants you'll be able to stow large items behind the front seats.

The conversion from left-hand drive to right-hand drive by the Walkinshaw Group has been very well executed, with important controls such as the gear selector and 4WD selector shifted across to the driver's side for ease of access. There's plenty of black leather and trim throughout the cabin, but this is contrasted by silver and faux woodgrain trim pieces and a light grey roof lining, which adds to an overall feeling of spaciousness. Fit and finish isn't perfect, with a couple of loose trim pieces on our test vehicle, but it's pretty damn good.

In addition to the massive centre console, other cabin highlights include the bright 8.4-inch colour touchscreen with Apple CarPlay/Android Auto, the seven-inch multi-view instrument cluster and the awesome Alpine sound system. A power tilt/slide sunroof and opening rear window are also standard Laramie-spec items.

It certainly doesn't disappoint in either the economy or performance stakes.

PRACTICALITIES

While it only has a 735kg payload capacity, the Ram's tub will appeal to those carrying large items. The tub comes with a spray-in bedliner and has four cargo tie-down points in the corners of the tub's floor. The big tailgate features assistance so it's not nearly as heavy to operate as you'd expect, and it locks with the remote key fob. Standard load-tray illumination is another handy feature, and a soft tonneau cover and heavy-duty tow bar are offered as optional accessories.

When it comes to vehicle recovery, there are two big recovery points up front and, with a 50mm hitch at the rear of our test vehicle, the usual variety of rated recovery receivers can be used.

The Ram 1500 Laramie features most of the other stuff you'd expect to find on a high-end vehicle such as remote keyless entry, dual-zone climate control air-conditioning, Bluetooth connect, fog lights, cruise control, heated door mirrors, parking sensors, reversing camera, tyre pressure monitoring system, rain-sensing wipers, auto headlights (and auto high beam) and more.

On the safety front the Ram 1500 Laramie scores driver and front passenger airbags, and front seat side and curtain airbags; traction, stability and trailer sway control; electronic brake force distribution; hill start assist; and three child seat anchors.

SUMMARY

The 3.0L V6 EcoDiesel will be the Ram 1500 Laramie many buyers have been waiting for, and it certainly doesn't disappoint in either the economy or performance stakes; but at $10K more than the petrol Hemi V8 equivalent, you probably wouldn't buy it for the fuel economy advantage alone. The V6 EcoDiesel's trump cards are its far superior touring range, it's abundance of low-rpm torque and its surprising refinement.

On the downside, the V6 EcoDiesel can't match the Hemi V8's optional 4,500kg towing capacity, and at 735kg its payload is 65kg less than its petrol-powered sibling; but if you've been hanging out for the oiler, you certainly won't be disappointed.

If you're after a full-size turbo-diesel American pick-up that's backed by a three-year/100,000km warranty, the Ram 1500 Laramie 3.0L V6 EcoDiesel is a worthy contender.

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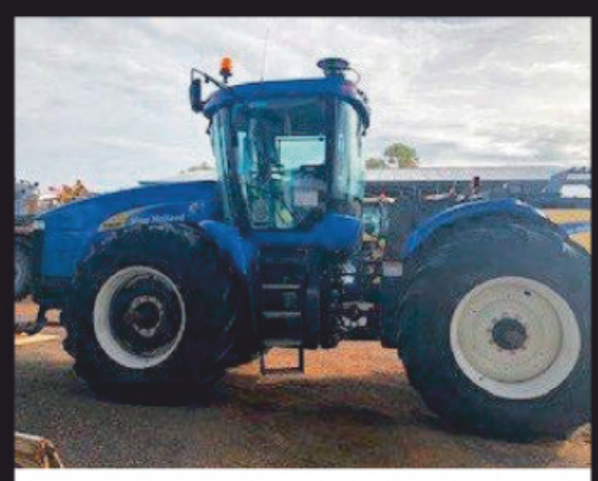

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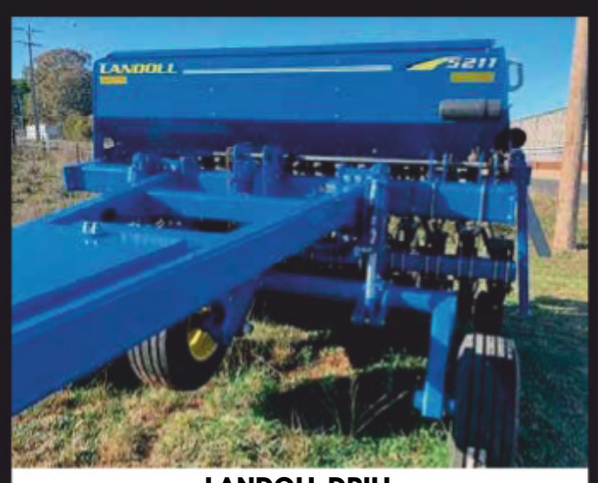

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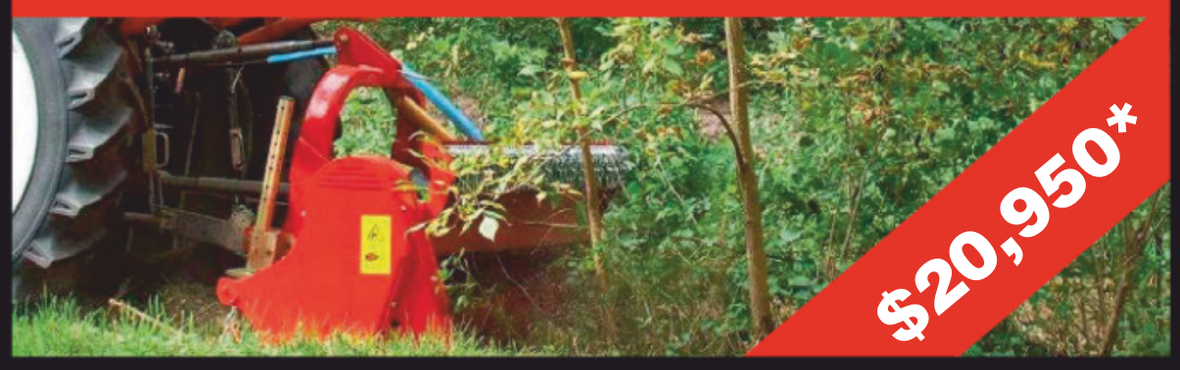

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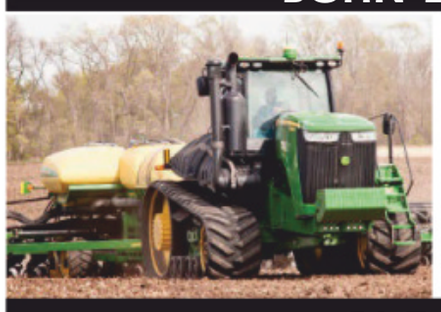

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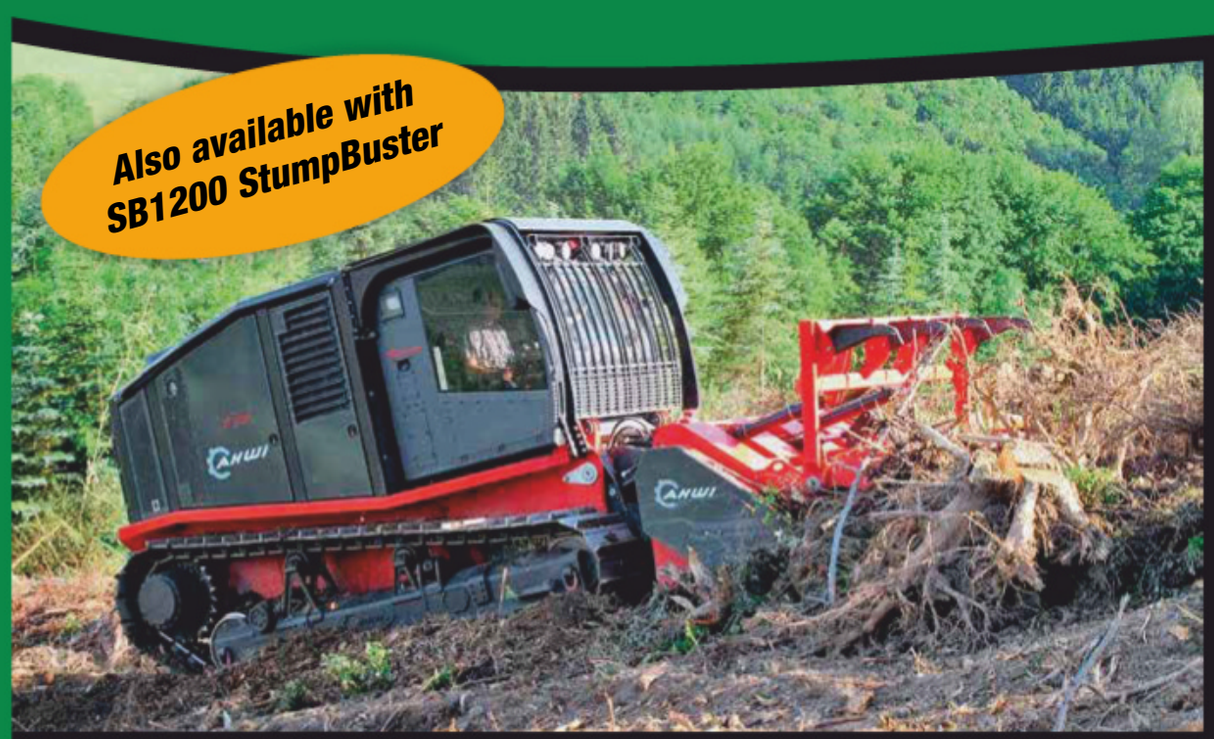

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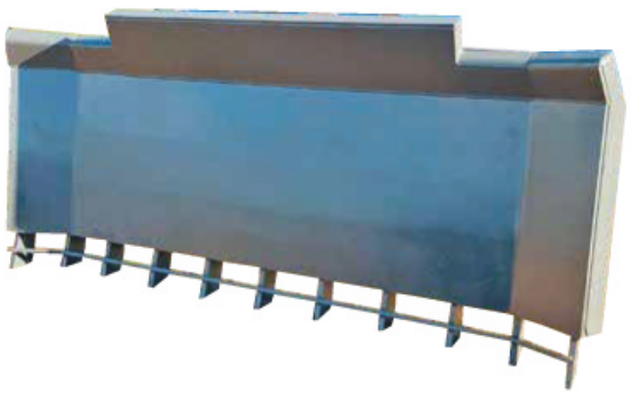

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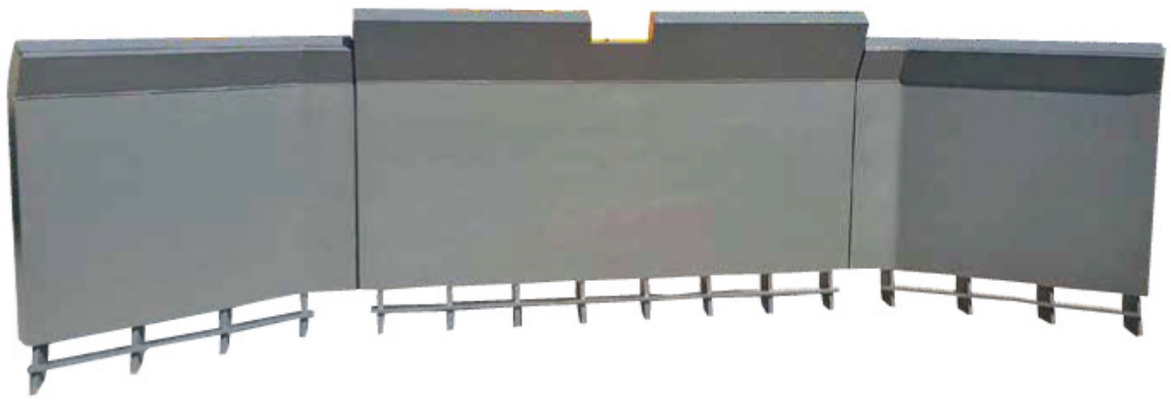

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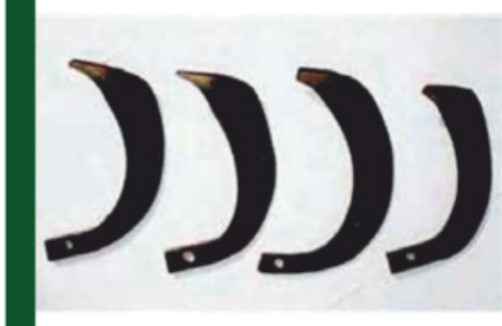

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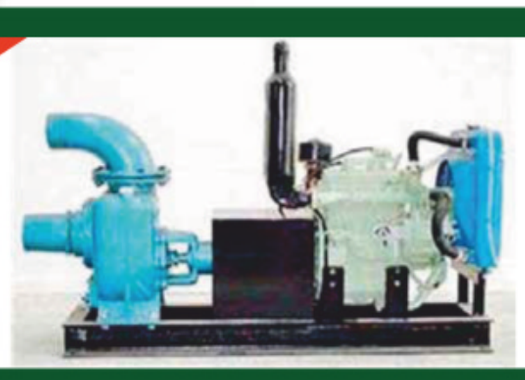

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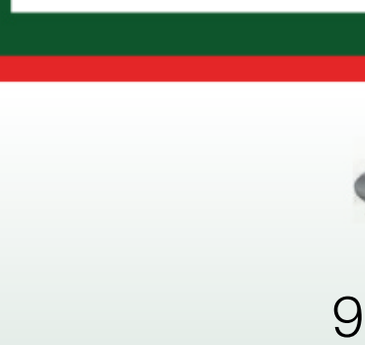

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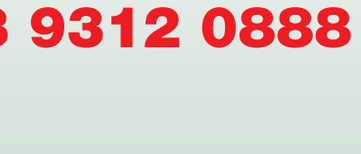

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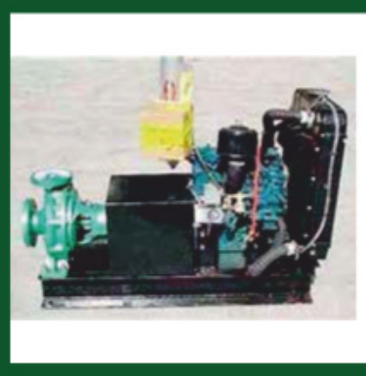

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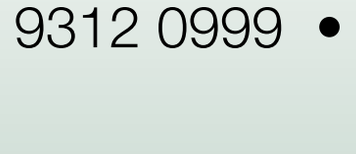

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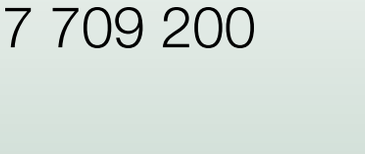

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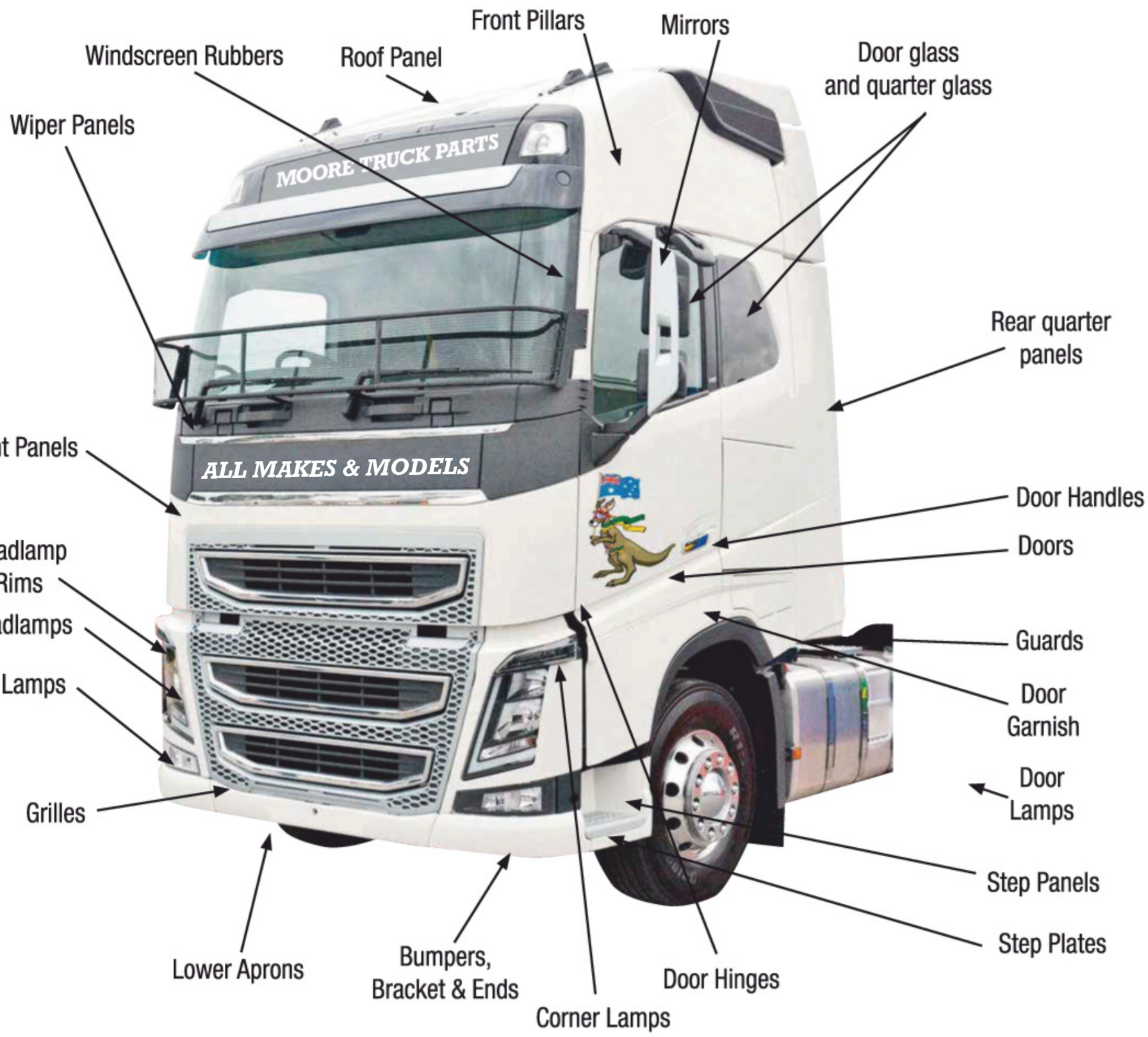

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NEW HOLLAND TL90A TRACTOR WRIGHTS TRACTORS PHONE 08 8323 8795 4 wheel drive, 3 point linkage, air conditioned cab, 4 front weights, approximately 4,946 hours indicated, tyres very good, approximately 90 horsepower, PTO, remotes. *price includes gst. 6278. TA814954. **$28,750**

FORD 5000 PLUS TRACTOR (DUAL POWER) RED LINE 86 GRAIN SPECIAL WRIGHTS TRACTORS PHONE 08 8323 8795 2 wheel drive, power steer, manual transmission, Front End Loader, front mounted hydraulic pump, complete strip down re-conditioned motor with new sleeves, sunroof & roll frame, tyres 85% all round no cracks, no rust, 3 point linkage, approximately 67 horse power, excellent unit, approximately 3,000 hours indicate. (MUNROE POST RAMMER NOT INCLUDED IN PRICE) *price includes gst. 6357. TA858653. **$24,250**

INGERSOLL-RAND TRAILER MOUNTED AIR COMPRESSOR 130 CFM approximately, diesel, serial no: SN315616, vin no: SCZP110WDYY315616, approximately 3,000 hours indicated, Deutz motor model no: F3L 1011, serial no: #00839131, spring suspension, jockey wheel. 6695. TA1003292. **$8,450**

ALSO KUBOTA M6030DT 4WD WITH FRONT END LOADER $21,450

KUBOTA M6030N TRACTOR WRIGHTS TRACTORS PHONE 08 8323 8795 Kubota M6030N Tractor (narrow), 4wd, Front End Loader, roll frame, 4.1 bucket, 3 point linkage, approximately 56hp, powersteer, excellent all round, approximately 5,000 hours indicated *price includes gst. 6091. TA743311. **$23,450**

MANITOU BT420 TELEHANDLER BUGGISCOPIC 4 cylinder diesel, serial no: 144412, engine no: KF805068, chasis no: 1144412, fitted with Perkins engine, approximately 1,082 hours indicated, fully enclosed cab, extendable boom, fork tynes, multi purpose bucket, cabled winch attachment (SWL 1000kg), work lights, ex Govt, still has 5 year test valid *price includes gst. 6717. TA1007961. **$36,450**

GENIE AWP-25S AERIAL MANLIFT (2008), electric, serial no: AWP08-60304, fitted with safety rails, maximum platform height 7500mm *price includes gst. 6689. TA1001525. **$2,950**

FORD 6640 TRACTOR 2 wheel drive, 3 point linkage, self levelling Front End Loader, approximately 5,500 hours indicated, air con cab, very clean and tidy inside and out, approximately 85 horsepower, tyres 70%. *price includes gst. 6668. TA995248. **$33,850**

NEW HOLLAND TS100 TRACTOR 4 wheel drive, 98 horsepower approximately, diesel, no front weights, approximately 4,200 hours indicated, 3 point linkage, ex Council *price includes gst. 6626. TA964784. **$34,450**

DIGGA SLASHER ATTACHMENT MODEL SL-000103 5' Slasher Attachment, serial no: 1705120019, 34 horsepower, weight 380kgs, length 1680mm, width 1540mm, suit Skidsteer Loader, AS NEW *price includes gst. 6690. TA1001533. **$4,600**

ALSO AMMANN CH4900 DRUM ROLLER, 3CYL DIESEL, SMOOTH DRUM $14,950

LOCKWOOD ROLLER steel drum, 2 cylinder unleaded, fitted with Honda GX630 petrol mower, drum width 1,100mm approximately *price includes gst. 6672. TA998723. **$8,500**

WACKER NEUSON E08-01 RUBBER TRACKED EXCAVATOR (0.9.9 tonne), 3 cylinder diesel, engine no: 88710, vin no: WNCE0801CPAL00328, approximately 1,580 hours indicated, adjustable track width, 3 buckets, back fill blade, ROPS, powered by Yanmar 3TNV70-VNS *price includes gst. 6719. TA1008892. **$16,950**

JOHN DEERE 400 TRACTOR WITH FRONT END LOADER + REAR MOUNTED FORK 2 wheel drive, 60 horsepower approximately, fitted with rear mounted 2 tonne fork, no oil leaks, excellent original condition, approximately 3,300 hours indicated *price includes gst. 6718. TA1008887. **$11,950**

LINCOLN RANGER 405D WELDER/GENERATOR The Trailer Factory, H/D, Generator/Welder (Trailer Mounted) 3 cylinder diesel, vin: 6FL11223361000144, fitted with: Lincoln Ranger 405D Welder Generator, 3 x 240v outlets, 1 x 415v outlet, jockey wheel, pneumatic tyres * price includes gst. 6657. TA993951. **$7,950**

CASE IH JX70U TRACTOR WRIGHTS TRACTORS PHONE 08 8323 8795 4 wheel drive, powered by Iveco 4 cylinder diesel engine, air conditioning, enclosed cab, tow bar, 3 point linkage, power take off, AUX hydraulics, 4 speed high/low, approx. 74hp, immaculate condition *price includes GST. 6337. TA847556. **$28,950**

IMANTS ROTOK.R6.MD.R17 ROTOKNIFE Lawn aerator *price includes gst. 6630. TA964931. **$9,850**

JOHN DEERE 855 TRACTOR 4 X 4 FITTED WITH 60" HYDRO CUT JOHN DEERE SLASHING DECK roll frame, 3 point linkage, 4 wheel drive, 3 cylinder diesel, PTO hydraulics, roll frame, 24 horsepower approximately, original condition, *price includes gst. 6623. TA964775. **$11,400**

KUBOTA B7300 TRACTOR WRIGHTS TRACTORS PHONE 08 8323 8795 4wd, 3 point linkage, approximately 2,500 hours indicated, Kubota 3cyl direct injection diesel engine, eng: XA0530, roll frame, 3 cylinder diesel, (SLASHER EXTRA $2,300) *price includes gst. 6061. TA729856. **$7,450**

CASE IH MAXXUM 100 TRACTOR 4 wheel drive, approximately 5,900 hours indicated, ex Council,4 cylinder turbo diesel, transmission 16 speed Hi/Lo, no front weights, 101 horsepower approximately, 3 point linkage, immaculate, (JUST ARRIVED)*price includes gst. 6628. TA964798. **$52,500**

ALSO DITCH WITCH 8020 TRENCHER, 4CYL DIESEL, BACK FILL BLADE, AUX HYDRAULICS, OPEN CABIN, ROPS

DITCH WITCH 4010DD WHEELED TRENCHER Ditch Witch 4010DD Wheeled Trencher, 3 cylinder diesel, serial no: 6B2114, approximately 3,853 hours indicated, fitted with Deutz air cool diesel, 4 speed transmission, push blade, Model A512 Trencher, serial no: 2B0042, tyres 31 x 15.5-15, excellent condition *price includes gst. 6691. TA1002653. **$29,450**

CASE IH MAXXFARM 25 TRACTOR 4 wheel assist, 3 point linkage, roll frame, Front End Loader, approximately 380 hours indicated, with books, approximately 28 horsepower, AS NEW *price includes gst. 6642. TA978637. **$19,750**

LOADER BEING FITTED

JOHN DEERE 6510 TRACTOR 4 wheel assist, air con cab, 3 point linkage, 105 horsepower approximately, ex Council. (LOADER BEING FITTED EXTRA $14,000 APPROX) *price includes gst. 6629. TA964921. **$31,000**

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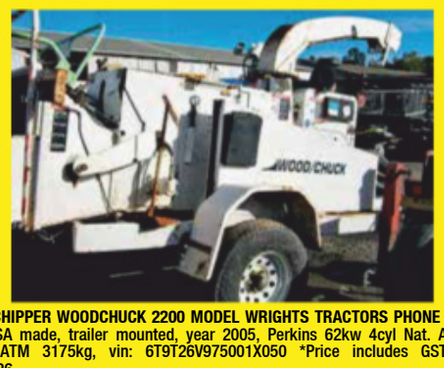

WOOD CHIPPER WOODCHUCK 2200 MODEL WRIGHTS TRACTORS PHONE 08 8323 8795 USA made, trailer mounted, year 2005, Perkins 62kw 4cyl Nat. Aspirated diesel, ATM 3175kg, vin: 6T9T26V975001X050 *Price includes GST. 6058. TA727326. **$9,000**

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POA

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C13 CAT Engine
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POA

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Twin Rotors
Engine Hours 1600
Separator Hours 1170
Brand New Chopper - Redekopp Removed
FDT Cursor 16, 6 cylinders 653 hp
4 speed Hydro Trans
142L/min Long Auger- Foldable Bin
14,500 Grain Tank
Rotor Vane update
Centre Point Steering
MACDON FD75 45' 2016- No Trailer
Turbo Drum Knife one season old.
611961002. TA1015611.

POA

GLEANER S98

2017, Factory steering (free to air), 900/60R 32 single drive tyres 90%, 520/80R 26 steer tyres 90%, auger extension, tidy maintained machine, fold down top from cab and titan terminal control. C71364. TA970992.

POA

MORRIS 8240 BOX

2008, Liquid Trike, 2 Granular Bins - 1) 3,129Ltr (89 Bushels), & 2) 5,278Ltr (150 Bushels), 3,000L Liquid Tank & Pump, 300L Fresh Water Tank, Mechanical Meter Box Drive, Tyres 30.5L-32 80% Rear, & 500/70 R24 80% Front, 6 Outlet Metering Box x 2.5" Diameter. 102554. TA926146.

POA

HARDI 7036I COMMANDER

7000 Litre tank, 9 section, HC6500 controller, Norac Auto Height, Granny Pot, Triple Nozzle Bodies, Boom Wheels, Command auto rinse, Hyd Pump Drive, 36m Force Boom. Stk#102531. TA1015779.

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Gleaner R65 w/- 30' 800 series flex front
2009 John Deere 9870 STS Combine
Claas Lexion 760 TT & 2015 MacDon FD75 40' Front
Claas Lexion 780TT & 2016 Swathup 450 Front &
2016 MacDon D65 40' Draper Front
Claas Lexion 780TT & 2016 Swathup 450 Front
John Deere 660 & John Deere 635D Front
New Holland CR 10.90 & 2016 MacDon FD75 45' Front
John Deere 680 & MacDon FD70 45' Front

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- Weight: Mech 1385kg / Hydro 1403kg
- INCLUDES: Front End Loader - PLc10, Max Lift: 2.45m

2019 CASE IH FARMALL 25B

- 1.3L, 3-Cylinder Diesel, 27HP Engine
- 2 Range Hydrostatic Transmission
- 3 Point Linkage 650kg Capacity
- 1 Rear Hydraulic Remote
- 4WD, ROPS, 540 PTO, Loader Ready

2019 CASE IH FARMALL 50B

- 2.5L, 4-Cylinder Diesel, 50HP Engine
- 16x16 Manual Transmission, 4WD, ROPS
- 540 PTO, 3-Point Linkage, 1252kg Capacity
- 1-Rear Hydraulic Remote
- Attachments Include: 4in1 Front End Loader.

2018 CASE IH FARMALL 75C

- FPT 3.2L, 4-Cylinder Turbo Diesel, 75HP Engine
- 12×12 Power Shuttle
- 4WD, ROPS, 540 PTO
- 3-Point Linkage 1886kg Capacity
- 2-Rear Hydraulic Remote, Loader Ready

2018 CASE IH FARMALL 60B

- 2.5L, 4-Cylinder Turbo Diesel, 60HP Engine
- 4WD 16x16 Transmission
- 540/750/1000 PTO
- 3-Point Linkage – 1850kg Lift Capacity
- Loader Ready

2018 CASE IH FARMALL 60B

- 2.5L, 4-Cylinder Turbo Diesel, 60HP Engine
- 4WD, 16x16 Transmission
- 540/750/1000 PTO, 3-Point Linkage.
- INCLUDES: Cab with Front End Loader - 4in1 Bucket
- *BONUS: Pallet Forks*

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- 1.76L, 4-Cylinder Diesel, 38HP/28KW Engine
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- 103Nm Torque, 33 Litre Fuel Tank
- 820kg Rear Lift Capacity
- Loader Ready

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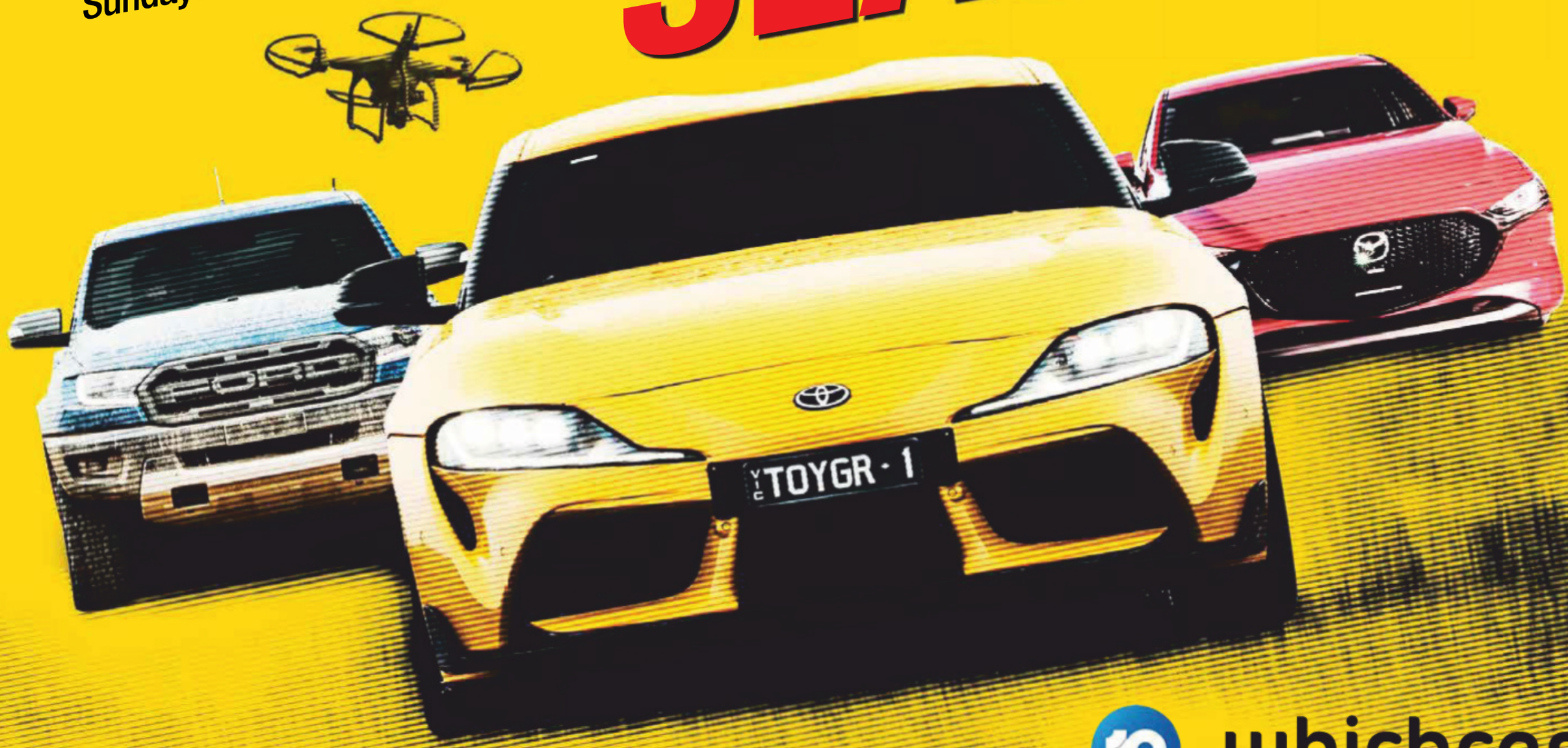

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JCB 3185-80 FASTRAC, 185hp, cab chassis, 14600hrs
JCB 3220-65 FASTRAC, 220hp, 3M Track, 3PL, 6990hrs
JCB 3220-80 FASTRAC/SPREADER, 220hp, 11200hrs
JCB 3230-80 FASTRAC/SPREADER, 230hp, 11000hrs
MF 4840, 265hp, 10700hrs

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CASE 2290, 126 pto hp, 5600hrs
IHC 986B, 133 hp, 8000hrs
IHC 5088, 150hp, 4750hrs
IHC 1486B / FEL, 167hp, 11000hrs

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CASE IH MX200, 200hp, 3PL, 8750hrs
CASE IH MAGNUM 260 CVT, 3PL, 257hp, 3750hrs
CLAAS ARION 620C / FEL, 140hp, 3500hrs
DEUTZ DX4.70A, 90hp, 3PL, 8200hrs
DEUTZ AGROTRON TTV610 / FEL, 165hp, 2600hrs
FENDT 822 VARIO, 226hp, Fr & Rr 3PL, 4720hrs
FORD 6640SLE, 85hp, 3PL, 5100hrs
FORD 7710, 100hp, 3PL, 8650hrs
JCB 8310 FASTRAC, 306hp, 3PL, 3200hrs
JOHN DEERE 6210 / FEL, 90hp, 3PL, 6700hrs
JOHN DEERE 8235R, 235hp, IVT, 3PL, 5280 hrs
LANDINI LEGEND DT130, 133hp, 3PL, 3400hrs
NEW HOLLAND TS90, 90hp, 3PL, 10300hrs
SAME TITAN 190 VDT, 189hp, 3PL, 6900hrs

MISCELLANEOUS
BLIGHTY ENG' 30' Rubber tyre Roller
BROONS Combination Roller
CASE 480E Loader, a/c, 10000hrs
CASE 580E Backhoe Loader
CIH MX 460/85R42 dual kit (80% tyres)
JCB 3CX-2WD Backhoe Loader 7900hrs
JCB 3CX-2WD Backhoe Loader, 12745hrs
JCB 4CX Backhoe Loader, a/c, 11000hrs
JCB 426HT Wheeled Loader, a/c, srs, 5000hrs
JCB 427HT Wheeled Loader, a/c, srs, 3540hrs
JCB 434S Wheeled Loader, a/c, 7560hrs
JCB 8018CTS Excavator, 1.6T, 1100hrs
JCB 8055RTS Excavator, 5.3T, a/c, 4275hrs
KOMATSU PC78MR-6 Excavator, 7T, 3600hrs
KOMATSU WA120-1 Wheeled Loader, 19000hrs
KOMATSU WA300-3E Wheeled Loader, 16000hrs
SIMPLICITY Small Seeds Box suit 8200TB3
TOYOTA 02-2FG35 gas Forklift, 1400hrs
VICTORY VL200 Wheeled Loader, 1385hrs
WCM 30 Wheeled Loader, 2800hrs

COMBINES
CJD 24R TCD
CONNOR SHEA 14 Row Pasture Drill, coulters, roller
IHC 6-1 24R
IHC 6-2 24R
IHC 511 24R, ssb, 2 to choose from
MF55 20R
MF 56 20R
MF56 24R
NAPIER 423 24R TCD, ssb
SHEARER S/MATIC 28R, ssb, 2 to choose from
SHEARER 27R TCD, ssb

BARS
ALFARM 50', 3 row
BUSH HOG 20' Conservatil
EEZE-ON 3350 40'@10"
GASON 5100 40'@9"
GASON 50'@10" Scaritill, Kelly rotary harrows
HORWOOD 20' Scaribar, 10.5"
HORWOOD 10M Scaribar, 333mm, banding, p/wheels
IHC 45 Vibrashank 26'
JANKE F250 40'@10"
JANKE F400 UDD Planter, 34'@12", p/wheels
JANKE F400 UDD Planter, 40'@12"
JANKE F500 UDD Planter, 40'@12", coulters, p/wheels
JANKE F400 UDD Planter, 48'@12', bdg, p/wheels
JANKE F400 UDD Planter, 50'@12", bdg, p/wheels
JANKE F500 UDD Planter 54'@12", bdg, p/wheels
JOHN DEERE 735 40'@10", p/wheels
MORRIS 49' Challenger II, 8"
NAPIER 34', 3 row
SHEARER Mk1 33' Fieldspan

AIR SEEDERS
ALFARM 350
ALFARM 033 34' / ALFARM 153
ALFARM 500 34' / ALFARM 3T, 7", SSB
ALFARM 530 40' / ALFARM 4T
CIH 4300 / SIMPLICITY 4000TR2, 43'@9", harrows
GASON SCARITILL / GASON 1850RT2, 9M@10.5", SSB
HORWOOD 4000 ELEC DRIVE, 2 bin trike, SSB
HORWOOD 4000 STREAMLINE, 2 bin trailed, spur gear
HORWOOD Tillmaster / SHEARER 3T, 30'@9"
HORWOOD SCARIBAR / 4000 STREAMLINE, 36'@8.75", 2 bin trailed
NH 3350 (In Frame), SSB, Diesel Engine
SHEARER 3T Mk3
SHEARER (EEZE ON) 2175, 5T Trike, SSB, auger
SHEARER 4-150 40'@12" / SHEARER 3T
SIMPLICITY 4000TB
SIMPLICITY 4000DTR
SIMPLICITY 6000TR2
SIMPLICITY 6000TR3, SSB
SIMPLICITY 6000TQC2, auger
SIMPLICITY 9000TB3
SIMPLICITY 9000TQC2*2M, linear
SIMPLICITY 9000TQC2, SSB
SIMPLICITY 9000TQC2, SSB, auger
SIMPLICITY 9000TQC2, SSB, linear
SIMPLICITY 9000TQS2
SIMPLICITY 9000TQS2, SSB, auger, linear
SIMPLICITY 9000TQC3, auger, linear
SIMPLICITY 9000TQS3, SSB, auger
TURNER Q FOUR, 4000 Li Mtd, 9M @ 9", bdg, harrows

TELEHANDLERS
DIECI 30.9 AGRI, a/c, 3200hrs, 9m x 3t
JCB 525-58FS, 6000hrs, 5.8m x 2.5t
JCB 525-67FS, a/c, 7000hrs, 6.7m x 2.5t
JCB 526-55, a/c, 8950hrs, 5.5m x 2.6t
JCB 526-55, a/c, 10675hrs, 5.5m x 2.6t
JCB 526-55S, a/c, srs, 4500hrs, 5.5m x 2.6t
JCB 526-56 AGRI, a/c, 1620hrs, 5.6m x 2.6t
JCB 527-58 AGRI, a/c, 1000hrs, 5.8m x 2.7t
JCB 527-58 AGRI, a/c, 2950hrs, 5.8m x 2.7t
JCB 527-58 AGRI, a/c, 4400hrs, 5.8m x 2.7t
JCB 527-58 AGRI, a/c, 5650hrs, 5.8m x 2.7t
JCB 527-58 AGRI, a/c, 6775hrs, 5.8m x 2.7t
JCB 527-58 T4i AGRI PLUS, a/c, 1000hrs, 5.8m x 2.7t
JCB 530-70, a/c, 6000hrs, 7m x 3t
JCB 530-70, a/c, 6200hrs, 7m x 3t
JCB 530-70FS, a/c, srs, 3000hrs, 7m x 3t
JCB 530-70FS, a/c, 6250hrs, 7m x 3t
JCB 530-70FS, a/c, 7500hrs, 7m x 3t
JCB 530-70FS, a/c, 9100hrs, 7m x 3t
JCB 530-70FS, a/c, srs 7000hrs, 7m x 3t
JCB 530-70FS, a/c, srs, 10000hrs, 7m x 3t
JCB 530-70FS SUPER, a/c, srs, 5470hrs, 7m x 3t
JCB 530-70FS SUPER, a/c, srs, 5500hrs, 7m x 3t
JCB 531-70C, a/c, 1700hrs, 7m x 3.1t
JCB 531-70C, a/c, 3000hrs, 7m x 3.1t
JCB 531-70CE, a/c, 5900hrs, 7m x 3.1t
JCB 531-70CE, a/c, 7200hrs, 7m x 3.1t
JCB 531-70CS, a/c, 1200hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, 3350hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, 3400hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, 6300hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, 7300hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, 8300hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, 11600hrs, 7m x 3.1t
JCB 531-70 AGRI, a/c, srs, 6300hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 5000hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 5850hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 6000hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 6000hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 6940hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 7000hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 7160hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 9800hrs, 7m x 3.1t
JCB 531-70 AGRI SUPER, a/c, srs, 11220hrs, 7m x 3.1t
JCB 531-70 T4i AGRI SUPER, a/c, srs, 2700hrs, 7m x 3.1t
JCB 531-70 T4i AGRI SUPER, a/c, srs, 7200hrs, 7m x 3.1t
JCB 535-95, a/c, 4500hrs, 9.5m x 3.5t
JCB 535-95C, a/c, 3850hrs, 9.5m x 3.5t
JCB 540-70FS SUPER, a/c, srs, 2000hrs, 7m x 4t
JCB 540-70FS SUPER, a/c, srs, 6300hrs, 7m x 4t
JCB 541-70 AGRI, a/c, srs, 5000hrs
JCB 541-70 AGRI SUPER, a/c, srs, 3050hrs, 7m x 4.1t
JCB 541-70 AGRI SUPER, a/c, srs, 5200hrs, 7m x 4.1t
JCB 541-70 AGRI SUPER, a/c, srs, 5700hrs, 7m x 4.1t
JCB 541-70 AGRI SUPER, a/c, srs, 7250hrs, 7m x 4.1t
JCB 541-70 T4i AGRI SUPER, a/c, srs, 550hrs, 7m x 4.1t
JCB 541-70 T4i AGRI SUPER, a/c, srs, 3500hrs, 7m x 4.1t
JCB 541-70 T4i AGRI SUPER, a/c, srs, 3900hrs, 7m x 4.1t
JCB 541-70 T4i AGRI SUPER, a/c, srs, 5050hrs, 7m x 4.1t
JLG 4013, a/c, 7700hrs, 13m x 4t
MANITOU MVT628T, 4400hrs, 6.8m x 2.8t
MANITOU MLT633TLS, a/c, 5500hrs, 6m x 3.3t
MANITOU MT728-4, a/c, 7600hrs, 7m x 2.8t
MANITOU MT728-4, 7800hrs, 7m x 2.8t
MANITOU MLT731, a/c, 4200hrs, 7m x 3.1t
MANITOU MLT731, a/c, 6000hrs, 7m x 3.1t
MANITOU MLT731T, a/c, 2935hrs, 7m x 3.1t
MANITOU MT732, a/c, 4300hrs, 7m x 3.2t
MANITOU MLT735-120LSU, a/c, 3400hrs, 7m x 3.5t
MANITOU MLT741-120LSU, a/c, 7100hrs, 7m x 4.1t
MANITOU MT932, a/c, 3140hrs, 9m x 3.2t
MATBRO TS270, a/c, 5300hrs, 5.5m x 2.7t
MERLO P40.7, a/c, 2800hrs, 7m x 4t
MF 9407S, a/c, 2850hrs, 7m x 3.5t
MF 9407S, a/c, 3300hrs, 7m x 3.5t
NEW HOLLAND LM630, a/c, 9600hrs, 6m x 3t
NEW HOLLAND LM435A, a/c, 3000hrs, 6.8m x 3.1t
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POA

FIMAKS FST 10000LT LIQUID SPREADER
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POA

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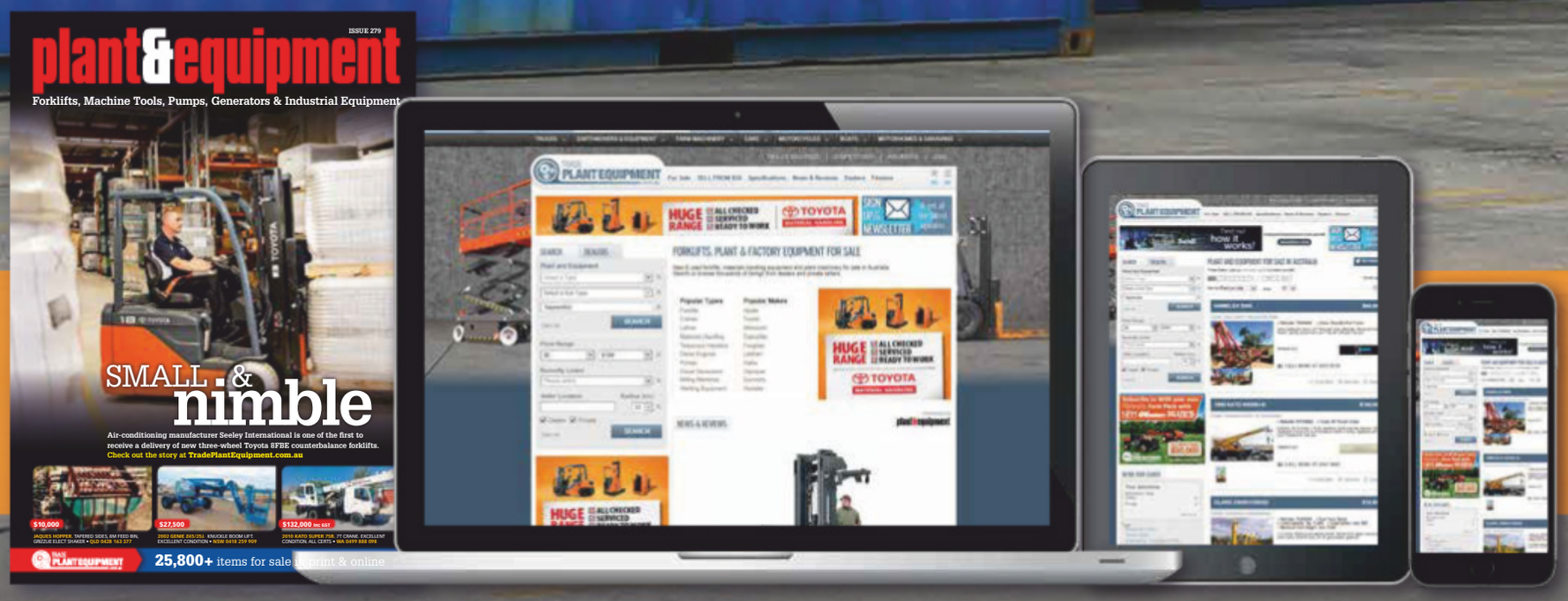

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CASE IH MAGNUM ULTIMATE 280 2016, 480/80R50 dual & 480/70R34 dual tyres, 3pl, f/suspension, 50 km/hr pwr shift trans, 800 hrs. S231. TA1008781. **$240,900**

CASE IH MAGNUM 335 GOLD SPEC 2010, 710/70R42 dual & 540/65R34 dual tyres, 3 p/l, f/suspension, 3900 hours. S232. TA1008782. **$170,500**

CASE IH MAGNUM 305 2008, 480/85R50 dual, & 480/70R34 single tyres, 3 point linkage, front suspension, 4800 hours. S233. TA1008783. **$126,500**

COMBINES

Case IH 8230, 2012 build, r/trap, chopper, 40' 2152 draper c/w hyd. top link, float optimiser, levelling wheels & cross auger, pre season serviced 1608 s/hrs **$352,000**

Case IH 7130, 2012 build, chopper, 2013 build 40' 2152 draper c/w hyd. top link, float optimiser, levelling wheels & cross auger, 1400 s/hrs, pre season serviced **$319,000**

Case IH 8120, 2009 build, duals, chopper, 40' Case IH 2152 draper levelling wheels, 2412 s/hrs pre season serviced **$231,000**

Case IH 7120, 2011 build, chopper, 1520 s/hrs, 40' 2162 flex draper c/w hyd. top link, float optimiser, levelling wheels & cross auger, pre season serviced **$324,500**

Case IH 2388, 2000 build 36' 1052 c/w cross auger 3120 s/hrs **$82,500**

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Case IH SB541 Small Square Baler, 2009 build, one owner, good condition,coming in **$26,400**

Case IH RB464 Round Baler, 2009 build, approx. 19,000 bales, 6' x 4' variable chamber, net, one owner, coming in **$30,800**

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SPRAYERS

Case IH 2012 build, 4430 Patriot sprayer 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 **$242,000**

Hardi 2008 NCM 7030 Commander, 7000L, 30 metres Eagle boom, 5500 controller with Jobcom, chemical hopper, 20.8 x 42 single tyres with adjustable track axle & suspension **$55,000**

TRACTORS

Case IH 2008 Steiger 385, 710/70R42 duals, 2850 hrs **$165,000**

Case IH 2012 Magnum 340 Ultimate, 710/70R42 dual & 540/65R34 dual tyres, 3 point linkage, front suspension, cab suspension, 50 km/hr power shift trans, approx 3800 hours **$187,000**

Case IH 2008 Maxxum 115, Multicontroller, 18.4R38 rear & 14.9R28 tyres, LSX41 Pro loader with 2160mm bucket, 6100 hrs **$64,900**

Case IH CVX 150 tractor, 20.8x42 r/tyres, Vision Lift 65 loader, 6505 hrs **$55,000**

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VALTRA T161 160 H.P.FWA ONE OWNER air front suspension electro hyds ..... POA
JOHN DEERE 9200 ARTICULATED 310 HP lower hours excellent condition ..... POA
CASE PUMA 165 LSX F.E.LOADER 165 HP one owner ..... POA
NEW HOLLAND 8560 160HP Front linkage and pto a/c cab fwa ..... POA
JOHN DEERE 6400 F/E LOADER a/c cab fwa ..... POA
MASSEY FERGUSON 4245 85HP a/c cab front wheel assist and f/e loader ..... POA
CLAAS CELTIS 446X 90HP a/c cab front wheel assist and f/e loader ..... POA
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CASE MX 120 A/C CAB 120 HP FWA ..... 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
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MF 394-4 Orchard Tractor, 80HP, Konig A/C cab ..... POA
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WELGER 520 6X4 ROTOR FEED AND KNIVES GOOD BALER ..... POA
WELGER 535 6X4 ONE OWNER ..... 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

MOWERS

TAARUP 2832F 3.2MT FRONT MOUNT DISC MOWER late model ..... POA
CLAAS 260 DISCO disc mower going through workshop ..... POA
TAARUP 2028 7 disc mower ..... POA
MOWER CONDITIONER
LELY PC 370 RS 3.7 MT STEEL ROLLERS CENTRE SWING late model ..... POA
TAARUP 4236CT 3.5 MTR tyne conditioner late model one owner ..... 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

HAY RAKES

GENDORE 6500 6.5 twin rotor rotary rake ..... POA
KUHN GA 7301 7.5 mt twin rotor rotary rake ..... POA

TEDDER

CLAAS 52 5.2 mt 4 rotor hydraulic fold ..... POA

SQUARE BALERS

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

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CASE IH 485
2008, 6600 hrs, Gold Spec, 800/70R38 Duals 40%, UHF, CD radio, Nav II & Pro 700, 262 receiver, auto steer 4 Remotes, power beyond, approx. 16 speed Powershift Trans, HD drawbar, weight package. Z8F112115. TA954915.
$154,000

NEW HOLLAND T9060 HD
2009, 2560hrs, Intelliview display, Nav II, RTK 262 receiver, Front oversize sign, 8 front suitcase weights, HID lights, LED Lightbar, 800/70R38 duals 70%, 4 remotes, power beyond, powershift Trans, 14 rear suitcase weights, wheel weights, 535hp boosted to 600hp, Last of the Cummins QSX15 fitted to these machines, in excellent order with low hours. tnag9060. TA953120.
$264,000

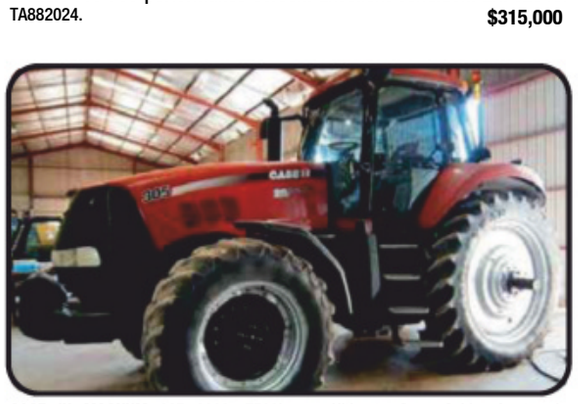
CASE IH MAGNUM 340 ROWTRAC 2015, ultimate spec. Low 655 hours, Powershift, 18 inch rear tracks, 420/85 R38 front wheels, UHF & radio Pro 700 performance screen. Excellent condition. ZRF02540. TA882024. **$315,000**

JOHN DEERE 9420 2005, 4WD, 425hp, 4 Remotes, Seeder Return, Alliance 520/85R42 Triples, Sycro Trans, CD/UHF, Training Seat, Greenstar Ready, A/C Cab, Tidy Order. RW9420H002263. TA958485. **$93,500**

QUALITY USED COMBINES

PRICE TO CLEAR

MERLO P36.10 2007, Used 2007 Merlo Telehandler, P36.10. 3.6T, 10M REACH, 100 HP DEUTZ Engine, Frame levelling, Standard pallet forks and Gp Bucket, A/c Cabin, 4WD, 4 Wheel steer with 3 steering modes. Forward/ Reverse shuttle, Single lever operation for boom controls. B7418063. TA996147. **$55,000**



CASE IH MAGNUM 305 2008, 7500hours, Ultimate Spec Cabin, front axle suspension, 4 rear remote valves, 480/70 R34 Front Single wheels. With 480/80R50 Rear Duals.10 x 45kg Weight Pack, Rear quick Hitch, UHF and Radio. Accuguide Ready. Excellent Condition. Located In Leeton. 3502. TA908087. **$90,000**

CASE IH MAGNUM 340 2018, ultimate spec, 852hrs, 710/70r42 rear duals, 600/65r30 front tyres 95%, guards, front axle and cab suspension, Linkage, quick hitch, 4 remotes, 540/1000PTO,19 speed 50kmh power shift, new nav control, 372 RTX, pro 700, auto steer, 10 months new machine warranty remaining, very tidy as new. JJAM0340TJRF01310. TA978693. **$286,000**

JOHN DEERE 6520SE 2003, Fwa tractor, 10300 hrs, 440/80r28 front, 540/80r38 rear industrial tyres, linkage, 540/1000 pto, 2 rear remotes, heavy duty drawbar, A/C cab. Quad shift, clutch less F/R shuttle, Radio, John Deere level lift loader, bucket and blade, joystick control (loader done very little work) Ex Council tractor has been towing a roller. LO6520F465594. TA1000186. **$46,200**

KOBELCO SK15/015 SK15sr 200, 300, 900 buckets, 2 axle Auswide Equipment aluminium trailer, May rego. A82875. TA1009641. **$19,800**

HARDI COMMANDER S 1999, 5000lt Tank, 4 section 33mt force boom, Triple nozzles, Electro Hydraulic Lift/Tilt/Fold, Pilot Controller, Boom Wheels, Inline suction filters, Quick mix chemical hopper, Hydraulic drive 463 Pump, Remote fill with filter, Stainless steel boom lines, Axel suspension, 23.1 x 30 tyres with guards, Very straight for age. 9907360. TA1000648. **$33,000**

CASE IH 4430 Aim Command Pro 2015, , 6000l 36.5 MT, approx. Eng 2500 hrs. 480/80r42 tyres and guards 60%, auto fold and height control, RTX 372 receiver, Nav, Pro 700 auto steer, 5 height sensors, auto grease , rev camera, Chemical inductor, Chem Vac, O/S sign, Micromatic clean out fitting flush, UHF, Radio, blue boom lights, serviced. YET040578. TA978694. **$346,500**

CASE IH 4430 Aim Command Pro 2015, 6000l tank, 36.5 mt, approx. 1550 hrs. VF380/90R46 tyres and guards, 50%, auto fold and height control, RTK 372 receiver, Nav auto steer, 5 height sensors, auto grease , rev camera, Chemical inductor, Chem Vac, O/S sign, UHF, Radio, Pro 700 AFS Display, serviced, very tidy. YET040063. TA978696. **$385,000**

CASE IH 4430 Aim Command Pro 2016, 7200l 36.5 MT, approx. Eng 1900 hrs., 900 spray hrs. 620/65R38 tyres and guards 75%, auto fold and height control, RTX 372 receiver, Nav, Pro 700 auto steer, 5 height sensors, auto grease, rev camera, Chemical inductor, Chem Vac, 3 banjo fill pump chemical pump, Front fill, reversible eng fan, boom recirculation / flush, UHF, Radio, electronic tank gauge, serviced. YGT042643. TA978695. **$385,000**

HARDI 8500 Commander 8536 2016, 8500 litre sprayer, 36.5m b3 aluminium boom with triplet nozzles hc8500 rate controller with 8 sections adjustable suspended axle with 520/85r42 wheel gear hydraulic drive 464 pump, hydraulic switch box and joystick section controls, 700 litre flush tank with flush taps, left and right solenoid end nozzles, 35 litre chem mixer & 3 inch filtered fill, road safety kit & mudguards, located in Leeton. 0415000297. TA814384. **$192,500**

HARDI 7036 COMMANDER 2008, 2009 yr 7036 commander, quick mix, guards, Hc 5500 controller, 6 section,6 in line filters, granni vac,3 mt axle, 520/85r42 tyres 80%, hyd drive 363, 3" fill, end nozzles / guards, electronic tank gauge.. 82818cartga. TA959348. **$55,000**

HARDI 6536 COMMANDER 2013, 6500L 36mt force boom, air bag boom wheels, 463 pump, 8 section, in line filters, HC 5500, jobcom, tyres 80%, O/S sign, road lights, Granni pot, suspension, adjustable axle and guards. rehsif6536. TA867059. **$93,500 inc-GST**

HARDI 7036 COMMANDER 2008, quick mix, guards, Hc 5500 controller, 6 section, 6 in line filters, granni vac, 3mt axle, 520/85r42 tyres 80%, hyd drive 363, 3" fill, end nozzles/guards, electronic tank gauge. cartga4. TA854001. **$66,000 inc-GST**

POLARIS JCB Horwood Bagshaw CASE IH AGRICULTURE MacDon MORRIS HARDI Flexi-coil

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CASE IH 7230

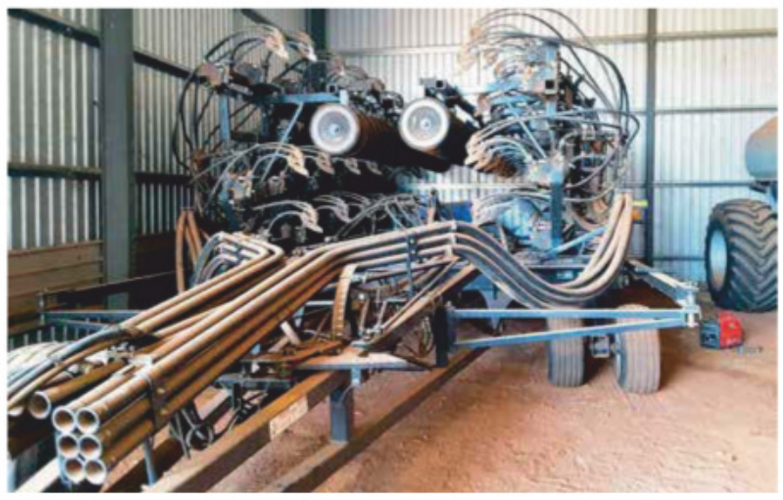
Axial Flow Combine, c/w 40ft 3152 Draper Front, Rocktrap, Straw chopper, upper cross auger, CROP READY!!. 51054. TA988977.

$357,500

CASE IH MXM120

120HP, c/w GRC Front End Loader, 3PL, 4150 eng hrs, 2003 model. 51080. TA1015269.

$57,200



FLEXI COIL 5500

60ft Air Drill, c/w hyd tynes 12" spacings, presswheels, dual sowing kit, Rootboots with points, 2014 model, good condition. 51043. TA942883.

$189,200

CASE IH 4430 PATRIOT

c/w 36m boom, 4560Lt tank, Aim Command PRO, PRO700, 372 Accuguide HP, auto fold, height control, auto section, 380/90R46 tyres, good condition. 51015. TA948532.

$368,500

MORRIS 7300

TBH Air Cart, 2 bin, 10,000Lt. 51025. TA948533.

$29,700

CASE IH MAGNUM 235

235HP, c/w 3PL, rear duals, powershift trans, 3380 eng hrs, 2012 model, very good condition. 51071. TA1015270.

$148,500

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GILTRAP 6601 10T BELT SPREADER (VIC)

.. Stk#200142. TA983956.

$25,000 inc-GST

LELY RP415 (TAS)

2012, round baler, bales: 11000. S143. TA983961.

$37,900 inc-GST

CASE IH 528 VARIABLE CHAMBER ROUND BALER

2006, Bales: 26000, VIN/Serial #:. WD000890. TA941215.

$15,500

CASE IH FARMALL 60B (TAS)

2016, FWA/4WD, Hours: 300, 60hp. 174013376. TA902301.

$39,900 inc-GST

CASE IH MXU110 Pro

2008, FWA/4WD Cab-Tractor/loader/implements, 5720 Hours, VIN/Serial #: Acp272782, Front Tyre %: 50, Rear Tyre %: 60. Bucket and Forks. One owner, presents very well, service history. 61514-F. TA911005.

$59,000

NEW HOLLAND TS100A

2005, FWA/4WD, Cab-Tractor/loader/implements, Hours: 4002, 100 Hp, VIN : Acp224633, Front Tyre Size: 420 50%, Rear Tyre Size: 520 50%. Located Longford (Tas). Wua929. TA883074.

$55,000

JOHN DEERE 8260R FWA/4WD (TAS)

5316 Hours, 260 HP. ID: 1545784. TA1001622.

$181,500 inc-GST

CLAAS VARIANT 360 ROUND BALER (VIC)

2008, 19,000 bales, netwrap, knives. Stk# 200170. TA1001547.

$18,000 inc-GST

CASE IH MAGNUM 280

2015, Cab - Tractor only, FWA/4WD, Hours: 4200, HP 280, Front Tyre Size: 480/70-34 Front Tyre %: 10, Rear Tyre Size: 480/80-50 Rear Tyre %: 20, VIN/Serial #: ZFRF02796. ZFRF02796. TA984245.

$179,000

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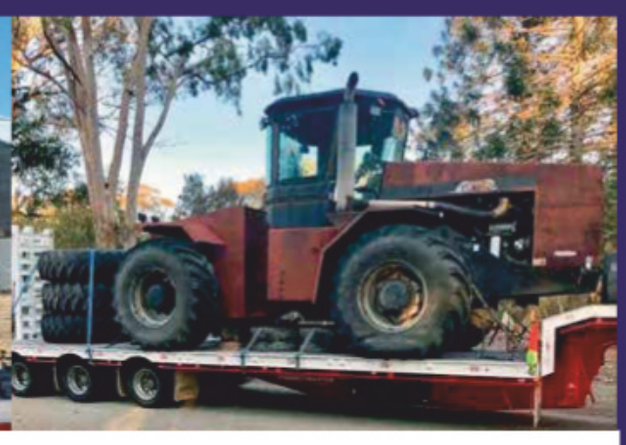

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CASE IH
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JOHN DEERE
6170R, 950, 1050, 1130, 1140, 1640, 1750, 2010, 2020, 2030,2040, 2120, 2130, 2140, 2250, 2450, 2650, 2850, 3010, 3020, 3120, 3130, 3140, 3350, 3640, 3650, 4010, 4020, 4030, 4040, 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, 6200, 6300, 6310, 6330, 6400, 6410, 7210, 7510, 7520, 7600, 7610, 7700, 7800, 7810, 7920, 8100, 8200, 8300, 8310, 8330, 8345RT, 8400, 8400 TRACK, 8410, 8430, 8360RT, 8440, 8450, 8520, 8520T, 8530, 8630, 8640, 8650, 8760, 8770, 8850, 8960, 8970, 9400, 9410R

NEW HOLLAND
7840, 8430, 8560, 8870, 9482, 9682, 9860, 9880, 9882, 9482, 9484, G210, G240, L85, L95, T6020, T7030, TG230, TG235, TG255, TG285, TJ425, TJ450, TM125, TM135, TN55D, TN95F, TS100, TS100A, TS110A, TS125A,

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KUBOTA F3680 2008, With Deck RCK72P, Side discharge, Fully serviced, New blades, Very good condition. GOING THROUGH WORKSHOP. S223. TA1008651. **$11,000**

KUBOTA SC1400C 2017, 4mtr working width, 4mtr transport width, 3000L bin cap, 32 row sowing, 125mm row spacing, 460 x 5mm cult disc, Double disc sowing coulter, 410mm dia, To go through w/shop. S217. TA989406. **$82,500**

KVERNELAND 2628M 2013, 7 disc mower, Top service cutter bar, New belts, Blades and serviced. Workshop checked. S222. TA1008648. **$6,600**

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GOING THROUGH WORKSHOP

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2016, Mower Conditioner, Very Good Condition. 1E00956SL GC420917. TA1002200.
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2010, Vineyard Sprayer. TH34346. TA926682.
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2013 JD 7260R TRACTOR - 5533 HRS.
CAB W/ AC HEAT, IVT, 3 POINT W QHITCH, 4-SCV, 60 GPM PUMP, AUTOTRAC™ READY, FRONT WHEEL WEIGHTS

$132,000 X085020 / TOOWOOMBA

2012 JD 7260R TRACTOR - 7161 HRS
IVT TRANSMISSION, 4 REMOTES, TPL QUICK HITCH, 480/80R50 REAR WITH DUALS

$110,000 X086489 / ST GEORGE

2008 JD 7630 TRACTOR - 4005 HRS.
AUTOTRAC READY, MFWD W TOP LINK SUSP, 3 POINT LINKAGE WITH QUICK HITCH, 540/1000 PTO.

$82,500 X091562 / ST GEORGE

2010 JD 7930 TRACTOR - 8156 HRS.
AUTOTRAC™ READY, MFWD W/TOP LINK SUSP, IVT, 480/80R50 SINGLES, 480/70R34 SINGLES FRNT, 3P W/ QHITCH, 4-SCV, 42.5 GPM HYD PUMP, 540/1000 PTO

$154,000 X107297 / ST GEORGE

2012 JD 8360R TRACTOR - 7046 HRS.
IVT, 480/80R50 DUALS, 3P W/ QHITCH, 480/70R34 FRONT DUALS, 1000 PTO, FRONT WEIGHTS, REAR WHEEL WEIGHTS, AUTOTRAC™ READY, ILS.

MANAGERS PICK

2016 JD 8370R TRACTOR - 9891 HRS.
ILS, MFWD, AUTOTRAC™ READY, IVT WITH LH REVERSER, 4 SCV'S, 60 GPM PUMP, FRONT & REAR DUALS, 48080R-50 REARS.

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2014 JD 8370RT TRACTOR - 1663 HRS,
IVT TRANS, AUTOTRAC™ READY,25" TRACKS.

$220,000 X107792 / TOOWOOMBA

2015 JD 8370RT TRACTOR-3416 HRS
IVT, 25INCH TRACKS, TRACKS ARE BRAND NEW, THIS TRACTOR IS IN EXCELLENT CONDITION AND READY TO GO.

$160,000 X107850 / TOOWOOMBA

2014 JD 8235R TRACTOR - 4690 HRS.
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2013 JD 6170R TRACTOR & SL LOADER
AUTOTRAC™ READY, MFWD W TOP LINK SUSPENSION, 20 SPD POWER QUAD, 3PL, 3-SCV'S, 42.5 GPM PUMP, 18.4R30, 540/1000 PTO, H380 LOADER,

$176,000 X103888 / DARWIN

2010 JD 8245R TRACTOR-2174 HRS.
CAB WITH AC HEAT, POWRSHIFT™ TRANSMISSION, 3P LINKAGE W QHITCH, 4 SCV's, 1000 PTO, FIELD VISION XENON LIGHTS, FRONT WEIGHTS.

$44,000 X106334 / TOOWOOMBA

2017 JD 946 MOWER CONDITIONER.
TRILOBE CONDITIONER ROLLERS IN GOOD CONDITION.

$17,050 X107106 / TOOWOOMBA

2005 JD 467 ROUND BALER - 9700 HRS.
HYDRAULIC PICKUP, BALER MONITOR, SURFACE WRAP,

FFM-FP-5011726-CS-382

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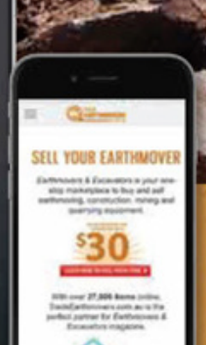

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CASE

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NTC 400 Rebuild	$20,350
NTC 350 Ex Fire Truck	$13,750
NTC 400 Ex Fire Truck	$ 1 5 , 9 5 0
NTC 444	$14,500
NTC400 Small Cam	$9,350
N14 Various from	$11,000
N14 Mechanical	$13,750
N14 525HP Celect Plus Rebuilt	$25,850
N14 Celect Ex Fire Truck	$13,750
N14 Celect Plus Low Miles	$16,500
NH250 Ex Us Army as New	$9,350
L10 330hp Rebuilt	$CALL
M11 Low miles from	$11,000
M11 Mechanical Industrial	$CALL
ISM 11 Low Km from	$12,100
ISM 420hp Low kms	$14,850
6CT 210hp 800hrs	$14,300
6CTA 250hp	$9,350
6CTAA 275hp - Low Kms	$9,350
6CTAA 300hp	$13,750
6CTAA 300 Rebuilt	$CALL
6BT 160hp	$8,800
6BT New 160hp	$15,950
6BTA 180 hp	$9,350
6BTAA 235hp Low kms	$10,450
ISB 5.9 Industrial	$9,350
ISB 5.9 24 Valve VP44	$8,250
QSC 260hp 2700hrs	$15,950
ISC Low Klms from	$14,850
ISC Rebuilt	$CALL
ISL Good Tested From	$15,950
ISL 400hp Rebuilt	$CALL
ISX 500hp Rebuilt	$27,500
QSM11 Rebuilt	$CALL
QSM11 Very Low Hours	$CALL

NEW CUMMINS 4BT AND 6BT CYLINDER HEADS

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C12 Good Runners from	$14,850
C12 Low Km	$17,050
C12 Industrial	$15,950
C12 Rebuilt	$CALL
3176 with jakes	$CALL
3116 Industrial & Auto	$CALL
3126 330hp	$11,000
3204	$8,800
3208 From	$9,350
3208 Rebuilt	$CALL
3208T Ex Government	$11,000
3208 Turbo Rebuilt	$CALL
3306PC Industrial Running	$5,000
3306DI 300hp truck spec	$13,125
3406B Strong motors	$14,850
3406B Powerpack	$CALL
3406B After cooled	$14,850
3406C Industrial spec	$15,950
3406C Truck spec	$15,950
3406E Dyno from	$14,500
C15 Dyno Tested	$20,350
C15 Rebuilt	$CALL
3044 New - Last one	$10,450
3066 New - Last one	$18,700
3516 Genset 200hrs 1600kva	$275,000

DAF

PACCAR 4 CYL	$ 8 , 2 5 0
PACCAR 6 CYL from	$8,500
PACCAR 6.7 CYL NEW	$18,150
430hp Mechanical	$13,750
280hp Electronic	$16,500
430hp Electronic Ex 85CF	$17,600
430hp Electroinic Ex 95 XF	$17,600
480hp Electronic	$17,600
530hp Electronic	$19,80

DETROIT

2.53 Suit Collector	$2,750
6V53 Dyno Run As New	$9,350
4.71 Low Hrs	$7,700
4.71 Turbo Low Hrs	$7,150
6.71 Inline	$7,050
6V71 Truck and industrial	$CALL
8V71 Low Miles	$9,350
6V92TA from	$10,450
6V92TA In-chassis Rebuild	$15,950
8V92 DDEC 2 Ex F/Truck	$13,750
8V92TA Industrial As New	$18,500
8V92TA Silver Near New	$13,750
8V92TA Electronic Low Miles	$13,750
12v92TTA	$13,750
Series 60 DDEC 2	$CALL
Series 60 12.7 500hp	$13,750
DD15	$19,250

DEUTZ

F3L912	$6,600
F4L914 Suit Rebuild	$3,300
F5L912 Suit Rebuild	$3,300

INTERNATIONAL

DT466 from	$8,250
DT466 Ex Firetruck	$9,350
530E Electronic low kms	$10,500

IVECO

8060 core motor	$5,000
9 Speed Transmission As New	$3,850
Tector Various from	$11,000
Tector 6 Rebuilt	$18,150
Cursor 8	$13,750
Cursor 10	$15,400
Cursor 13	$18,150

JOHN DEERE

4239D 80hp Low Hrs	$6,050
4045TF	$3,000

LISTER

ST3 Air Cooled 20hp	$3,300
LPW4 Water Cooled 40hp	$3,850

MACK

E6-350 Two Valve	$10,450
E7-350 Mechanical	$14,950
E7-427 V-	$16,000
E7-454 V-Mac	$16,225
E7 4 Valve V-Mac	$16,225
E7 480 EGR	$CALL

M.A.N.

DO824 Low Km	$7,150
DO826 Low Klm	$9,350
DO836 Electronic from	$9,900
DO836 Common Rail	$16,500
D2866	$13,750
D2876	$13,750
D2676 Common Rail	$22,000

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OM422 V* 250hp	$9,350
OM447 Bus	$11,000
OM447 Turbo	$13,750
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OM906LA From	$11,000
OM926LA From	$13,750
OM457 Bus	$17,050
OM460 Freightliner from	$13,750
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4 Cyl Varioius	$CALL
4.236 Suit Rebuild	$1,100
804 Brand New	$10,450

SCANIA

DSC/DS9 Various	$CALL
DC9 5cyl Low Kms	$19,800
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DSC12 420hp Electronic Low Ks	$CALL
DT12 470hp & 480 EGR	$CALL
DS14 4 Series	$CALL
DS16.0 580hp Low Klms	$22,000

VOLVO

TD61F	$8,500
TD63	$9,350
D6A Low Km	$9,350
D6B	$10,450
TD71 Low Km	$9,350
TD73 Low Km	$9,350
D7A Mechanical	$9,350
D7B Mechanical	$9,900
D7 Electric Gov. Low Km	$13750
D7C ex Low Km FM7	$13,750
D7E Tested Units From	$12,250
FH12 D12A	$CALL
D12D 420hp Low km	$18,700
D12D 460hp	$19,800
D12D 500h	$CALL
FM9 D9A	$16,500
D9B Low K	$18,700
D11-460	$19,250
D13A Low Km	$CALL

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Eato	$575
MAN Various from	$825
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Various 5,000lb to 65,000lb hydraulic winches available

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B400R Retarder Spec	$7,150
B500R Retarder Spec	$11,000
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MT643 Low kms	$3,300
MT653 Low kms	$3,300
MTB653 with Retarders	$6,050
MT654 As New	$6,050
HT740 Ex US Army	$8,250
HT754 low Hours	$9,350
HT754 With Retarder	$11,000
HT750 DRD low Km	$9,750
ZF 4 sp Autos	$CALL

Various adaptors available

GEARBOX

Roadranger RTO16709	$2,950
Roadranger RTO12513	$2,750
Leyland 5 Speed	$1,375
ZF S680 + GV80	$3,575
ZF S680	$2,850
ZF S690 GV90	$3,850
ZR S690	$3,300
Kaiser 5 Speed	$1,500
IVECO Various	$CALL
Scania GRS900R	$7,700
Scania GRS900	$7,150

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Cat 3126 290hp	$22,000

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Complete 4 x 4 set of axle assemblies, transfer case, tail shfts etc.. ex Atego Fire Truck. Very low mileage conditio $CALL

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New 3,000 Gal Trailable. complete with tiedowns. Suit potable water, molases et	$5,500
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3406B Aftercooled	$CALL
Caterpillar 3126 290hp	$22,000
Cummins 6BT 160hp	$11,000
GM 3.53 with clutch low hrs	$3,000
John Deere 4045 Runs, needs work	$3,000
John Deere 4045	$CALL
John Deere 3059	$CALL

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NEW HOLLAND TT4.75 Used 2014 New Holland TT4.75 ROPS Tractor, 1174.5 eng Hrs, good clean Tractor, with front fenders. Low Hrs. Located Shepparton. S410. TA998220. **$26,400**

JOHN DEERE 7930 2008, 7110Hrs. Echuca yard 03 54822788. RW7930D011577. TA910160. **$93,500**

NEW HOLLAND TSA110 Delta, 4 Cylinder, 110 Hp Engine, 2 Remotes, 4,800 hrs, gone thru workshop. At Cobram dealership 03 5871 3333. S404. TA993548. **$38,500**

CASE IH MX180 2000, 4979.2 Eng hrs 180hp. Trimble 750 auto steer with Trimble steering wheel. Located Echuca 03 5482 2788. S357. TA932695. **$66,000**

ENFORCER M SERIES 35 Enforcer 3.5T, 4WD Diesel Forklift, 50.1 engine hrs. Rough terrain Forklift, 2018 Model. 3500kg lift capacity, 3 Stage Mast, side shift. Comfort-class suspension seat, scales. At Shepparton dealership. S413. TA1002745. **$49,500**

NEW HOLLAND CR9080 2009, 83C 40ft draper front (Macdon) on trailer, 2724e & 1971r hrs, 2009, twin 22" rotors, MAV chopper, singles. S353. TA930864. **$308,000**

NEW HOLLAND CR8090 CR 2012, New Holland CR8090 Smarttrax, 1940e & 1264r Hrs, Optispread Chopper, PSD, Class 8, Macdon D60 40ft Draper Front, Located at Shepparton. S352. TA930781. **$396,000**

OTHER ROLLER 25ft rubber tyred roller, swings around for narrow transport, hyd ram. Echuca Dealership. S372. TA951649. **$10,000**

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BONNELL 1½ / 2 TON BELT SPREADER (Good Order). S1790. TA993821. **POA**

SAME FRUTTETO 1985, with a/c forklift 3PL 85hp. S1717. TA942864. **POA**

LILLEY 5' FORAGE HARVESTER 3PL .. S1801. TA998753**. POA**

GEHL MX100 HAMMER MILL MIXER TA1015787. **POA**

FORD NEW HOLLAND 4635 A/C, 3PL, 90% tyres. S1618. TA907655**. POA**

DUNCAN RENOVATOR TILL-SEEDER 19 RUN WITH COIL TYNE BAKER BOOT & COULTERS. S1586. TA883289**. POA**

AGROWPLOW 3PL 5 TYNE WITH SPEED BOX. TA1015794. **POA**

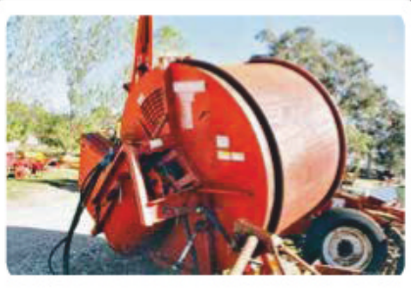
KUBOTA M7500 Diesel, 3PL, power steering, 78hp. S1805. TA998760**. POA**

COLBURN 9 TYNE 3PL SUBSOILING PLOUGH WITH COULTERS .. S1802. TA998756**. POA**

HARRINGTON CATTLE CRUSH (BEEFMASTER). TA954517**. POA**

MARSHALL 2 1/2 TON MULTI SPREAD BELT SPREADER. TA1015795. **POA**

KVERNELAND 4 FURROW MOULDBOARD PLOUGH 3PL TA1015799. **POA**



KVERNLAND HALE BALE CHOPPER .. S1757. TA972009**. POA**

7` 3 PL AERATORS. TA1015806. **POA**

ISEKI BOLEN G212 TRACTOR 21hp, ROPS, diesel, 3PL. S1835. TA1015810 **POA**

TRAVELLING IRRIGATOR (SUIT FIRE FIGHTER). TA954515**. POA**

HOWARD SELECTED SPEED 10" ROTARY HOE 3PL.. S1761. TA972012**. POA**

LEYLAND 270 70HD DIESEL TRACTOR with hyd dozer blade. S1778. TA983944. POA

NEW HOLLAND 2A SILAGE CART. TA954522**. POA**

CHRIS GROW 10` SLASHER Heavy Duty. TA1015822. **POA**

TAARUP 106 FORAGE HARVESTER. TA1015815 **POA**

CONNOR SHEA COIL TYNE BAKER BOOT SEEDER 7' 3PL. S1614. TA907653**. POA**

MASSEY FERGUSON 135 Diesel with FE Loader & 3PL. S1806. TA998761**. POA**

CRUMP KURRAJONG SPREADERS 1 and 2 Ton. TA930948. POA

CONNOR SHEA 9` DISC SEEDER Ready to work TA1015826**. POA**

3PL ROCK RAKES 6 TO 10 FT WINDROWS, RAKES & LEVELS, 6', 8' & 10'. TA307516. **POA**

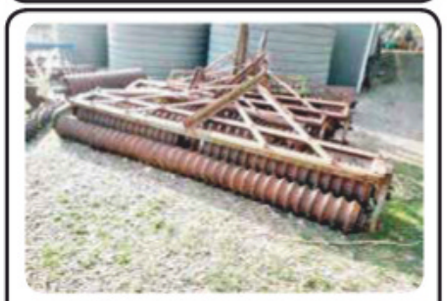
WALLACE 5 TYNE SUBSOIL PLOUGH WITH COULTERS. TA954520**. POA**

HYDRAULIC TIPPING TRAILER 10' x 6'. S1660. TA930942**. POA**

ROTATING WEED WIPERS 9'6" COVER SUIT QUAD, UTE OR TRACTOR. TA449307. **POA**

INTERNATIONAL 19 TYNE TRAILING SCARIFIER TA1015792 **POA**

AGRO-SEEDER 21 RUN COIL TYNE BAKER BOOT DIRECT SEEDER. S1591. TA883299**. POA**



KINGPACKER ROLLERS 8' TO 15'. S1753. TA958959**. POA**

GRIZZLY GRUMPY WHEELED OFFSET DISC PLOUGH 32 DISC. TA1015793**. POA**

MASSEY FERGUSON 24 DISC WHEELED OFFSET PLOUGH .. S1690. TA937764**. POA**

CONNOR SHEA 9' BAKER BOOT With Coulters. S1606. TA900741**. POA**

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Connor Shea 5' & 7', 3PL disc seeder
Seedling planter (Ellis) rotary
6' & 8' roller seeders
9' Connor Shea disc seeder trail
C seeders
Ellis and Sons 4 row seeders
Inter 24 run combine
MF 55 12 run combine
7' Ezy-Sow seeders 3PL $2,900

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Small square balers: NH 317, NH 275, NH 69, MF 12. Claas
Mower con - in stock
MF 3PL roller bar
NH 339 double chop forage harvester
Hay Feed out buggy (Pearce)
Baler, rakes, mower, handlers, elevators and spare parts.
Rakes, finger wheeeled 3PL, 3PL roller bar, tedder & rotary.

MISCELLANEOUS

Buttsworth scoops 1 yd
3 tyne Moorehouse ripper, 3PL.
Harrows cover, diamond, pasture & stump jump.
Bait layes
2, 3 & 5 tine rippers.
Harland irrigation pump, PTO.
Daken 3PL forklift
Piston pump 5" x 4" (DGM)
3PL stick rakes 6' to 10' new & sh
Forage harvesters & carts, NH Gehl & Tiki
Rollers (Cambridge), culti packers, stones & tyre)
7' to 28'.
PTO hammermills, roller mills, grain gristers. From $595
3PL, 5-9 tine trail, 8-14 tine chisel ploughs From $795
Irrigation pipes, pumps & motors, travelling irrigators.
Scoops, 3PL, silt blades, carryalls and rippers.
2nd hand tractor tyres, belt pulleys, PTO From $195
2nd hand new tines Augers, 50' x 6" & 8", pencil 14' x 4" new and 2nd hand.
Harrows all types From $45
Boom sprays, 3PL, Hardi and Silvan, 400 & 600ltr.
Power Harrows 3PL Lely 15'
Crump (Kurrajong 1000) 1 tonne trailing
Manure-lime & super spreaders Super spreaders ground drive, ½ - 4.5 tonne.
9' Roto wiper, new & secondhand
Vicon spreaders 10 to 30 bag,
Hardi 1200 ltr boomspray trail, foam & PTO.

OFFSET/DISC PLOUGHS

Grizzly 20 424 disc
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 pressers, bail heads, crushes, wool tables, hyd woolpress.

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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

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Ford 3000, 45hp, 3PL, P-Steer. FE Loader.
Fergie TEA20 petrol

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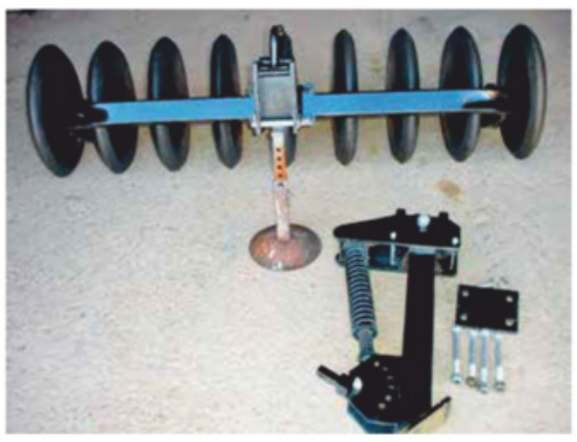
KIOTI RX8030SP ROPS LOADER & 4IN1

2017, Regrettable Kioti RX8030P.4C 4wd Cab + KL701 FEL 4:1 tractor for sale.

The tractor has had a very small run of light slashing work on a hobby farm and no longer needed after the property sold.
63782C. QLD. DIY1014511.
0437 113 771.
$50,000

FRAHN HCC-50
2019, Grain Cleaner recycled air wind tunnel. Horizontal Cyclone-Complex. (HCC. Capacity Model 50 HCC. Pre-cleaning. 50 TPH. Quality cleaning 15-35 TPH, HCC-501708030. VIC. DIY823036. 0418 504 269. **$39,490**



BOURGAULT SEED PRESS WHEELS
As new, Heavy Duty. Each 9 wheel gang is 6 foot lengths. Quick titan detach arms, bearings low maintenance, .. WA.
DIY1015790. 0428 305 750. **$15,400 Incl GST**

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BRAND NEW Tractor tyres. Various brands, BKT, Harvest, Logger tyres, Apollo, Goodyear, Firestone, TIANLI Nokian, Simex, Westlake etc. Most sizes, bias & radial / forestry, truck & earthmover as well. Call Mick anytime, .. QLD.
DIY561636. 0413 389 356. **$99 From**

CATERPILLAR 12H VHP PLUS

2007, 7706 hours. Excellent condition Grader complete with air-conditioned ROPS cabin, push block, 1400/24 tyres in v/good condition, 12 ft. mold board,rear ripper with ripper and scarifier shanks. Original paint, ready to work,
4ZF25271. VIC. DIY1014328.
0414 402 191.
$170,500

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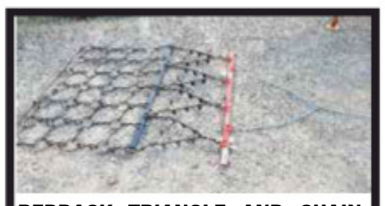
*Dealer and private stock items listed as at Feb 2016.

FERGUSON TEA20 1952, The engine runs nicely but this tractor would suit a new owner who is prepared to restore before putting it to work. New front tyres, spare front wheel. Slow transmission oil leak at rear, 2582. NSW. DIY1013991. 02 4568 2167. **$2,800 Negotiable**



REDBACK TRIANGLE AND CHAIN HARROWS This listing is for used Redback Triangle & Chain harrows. Used Harrows currently in stock are:
2 x 1.75m ATV Harrows
1 x 2.5m ATV Harrow
1 x 2.5m Heavy Duty Harrow (ex Fielddays display)
These Chain Harrows are the Redback Triangle & Chain (premium design) Harrows. All built from high grade steel, .. VIC. DIY989020. 1800 836 313. **$890**

BAROSSA MANUFACTURERS GABLE SHED FRAME Large Gable shed frame (20mX12mX4m) clearance height, 3 sliding doors each end. Heavy duty industrial frame only, no sheeting, BM 29483. SA. DIY1014475. 0403 121 274. **$10,000**

KIOTI CS2610 ROPS 2013, Kioti Tractor 4-in1 bucket, one owner, excellent condition with implements listed used for keeping a 5acre lifestyle property, 30505. VIC. DIY1013803. 0437 611 099. **$17,450**

OTHER 1234 2006, Side arm Hammer Mulcher for the back of the tractor, 12356. NSW. DIY1012111. 0438 495 069. **$8,000**

K-LINE 2900 SPEED TILLER in good condition. All discs replaced with new ones, 2945T151136. QLD. DIY1000205. 0409 620 361. **$70,000 inc GST**

KEVREK 1500 2008, Kevrek 1.5 ton truck mounted crane with service history., 7687. WA. DIY1010793. 0417 970 049. **$4,500**

FRAHN HCC-50
2019, Grain Cleaner recycled air wind tunnel. Horizontal Cyclone-Complex. (HCC. Capacity Model 50 HCC. Pre-cleaning. 50 TPH. Quality cleaning 15-35 TPH, HCC-501708030. VIC. DIY823036. 0418 504 269. **$39,490**

GVM MAKO
2016, Mako spra coupe. LOW hours. 24m boom 1500L tank, Hc400045. NSW. DIY1013139. 0448 442 372. **$160,000**

REDBACK 4.8M Redback Weedwiper (near new!) used to prove concept @ 5m wide before upgrading to larger format Redback Weedwiper in cropping application, .. QLD. DIY1003976. 02 9133 8634. **$4,620**

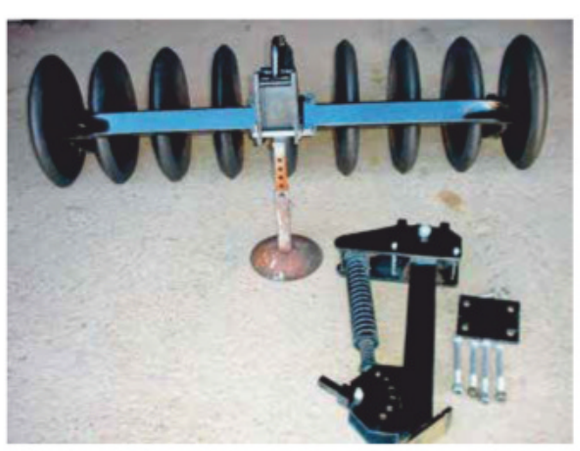
NEW HOLLAND T7.260
2018, New Holland T7.260 Auto Command 50kph Vario transmission, 300hrs, 220hp boost 260hp, new holland L4500 loader by challenge, guidance ready & Isobus, Firestone 520/85R42 420/85R30, front axle & cab suspension, premium cab & air suspended seat, 4 electric hydraulic remotes, flashing light uhf & blue tooth radio,
Nice tidy tractor, Can arrange freight Australia wide, $181,800 + GST, mobile 0402 851 544, T72602018. VIC. DIY1011149. 0402 851 544. **$199,980**

BKT VARIOUS
BRAND NEW Tractor tyres. Various brands, BKT, Harvest, Logger tyres, Apollo, Goodyear, Firestone, TIANLI Nokian, Simex, Westlake etc. Most sizes, bias & radial / forestry, truck & earthmover as well. Call Mick anytime, .. QLD. DIY561636. 0413 389 356. **$99 From**

CASE IH 695XL
Case International 695XL , 70hp
Cabin,FWA. Challenge 349E front end loader, 4 in 1 bucket 3PTL ,500 & 1000rpm PTO.
Dual rear hydraulics. Front tyres as new 12.4- 24, Rear tyres 30% 18.4 - 30, JJE0027936. NSW. DIY1013089. 0429 467 147. **$24,750**

FRAHN CAP - 10
2019, Gravity Table. (Capacity 10 TPH on Cereals) is used for fine grading & impurity separation of grains & small seeds with identical particle size but different in their specific weight, CAP10201708033. VIC. DIY823049. 0418 504 269. **$46,090**

NEW HOLLAND 575 SMALL SQUARE BALER
2012, New Holland 575 Baler
Accumulator - Muller (15 bales)
Grab - Muller (15 bales), 82445. NSW. DIY1012176. 0427 935 066. **$36,000**



BOURGAULT SEED PRESS WHEELS
As new, Heavy Duty. Each 9 wheel gang is 6 foot lengths. Quick titan detach arms, bearings low maintenance, .. WA. DIY1015790. 0428 305 750. **$15,400 Incl GST**

FRAHN VAL1500 - 6
2020, Grain Cleaner. 3 phase power. Approx 6 25plus tonnes p/hour. Tandem axle suspension with new 15" tyres & wheels, VAL15006231708027. VIC. DIY823029. 0418 504 269. **$53,460 Incl GST**

JOHN DEERE 4640 TRACTOR
Excellent condition, 1 owner, 155 hp, oil check test-normal, lic, new tyres, a/c, power shift, 2 way, iso, remotes, duals, .. WA. DIY1015804. 0428 305 750. **$28,600 Incl GST ONO**

LOCKWOOD 12.5 CUBIC METERS
2019, 12.5 cubic meters used 3times have bought bigger machine has scales and is brand new, na. VIC. DIY1014126. 03 5577 2248. **$48,000**

FRAHN VAL1500 - 6
2020, Grain Cleaner. 3 phase power. Approx 6 25plus tonnes p/hour. Tandem axle suspension with new 15" tyres & wheels, VAL15006231708027. VIC. DIY823029. 0418 504 269. **$53,460 Incl GST**

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2018, New Holland T7.260 Auto Command 50kph Vario transmission, 300hrs, 220hp boost 260hp, new holland L4500 loader by challenge, guidance ready & Isobus, Firestone 520/85R42 420/85R30, front axle & cab suspension, premium cab & air suspended seat, 4 electric hydraulic remotes, flashing light uhf & blue tooth radio,
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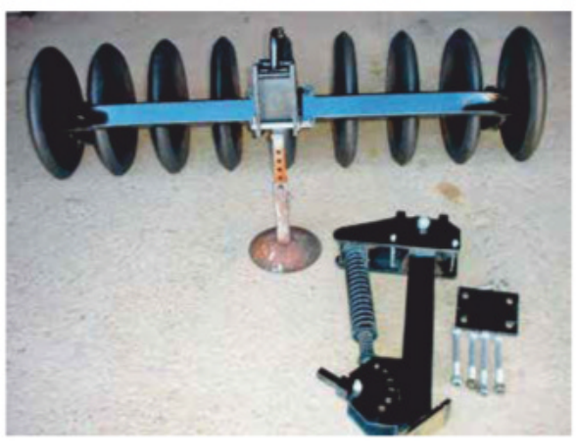

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Grab - Muller (15 bales), 82445. NSW. DIY1012176. 0427 935 066. **$36,000**

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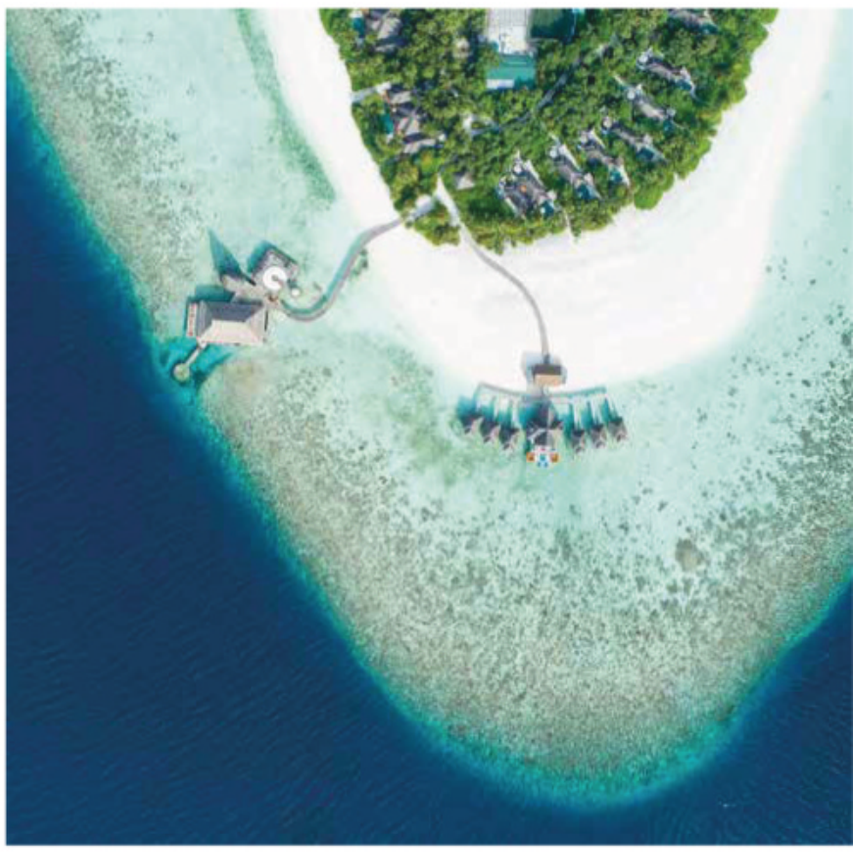

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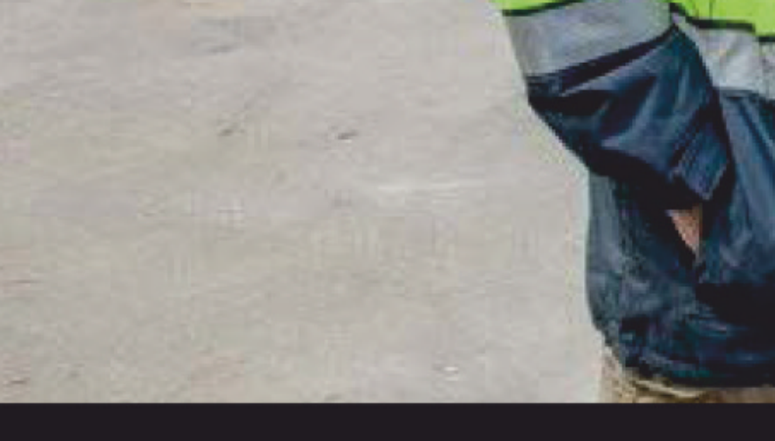

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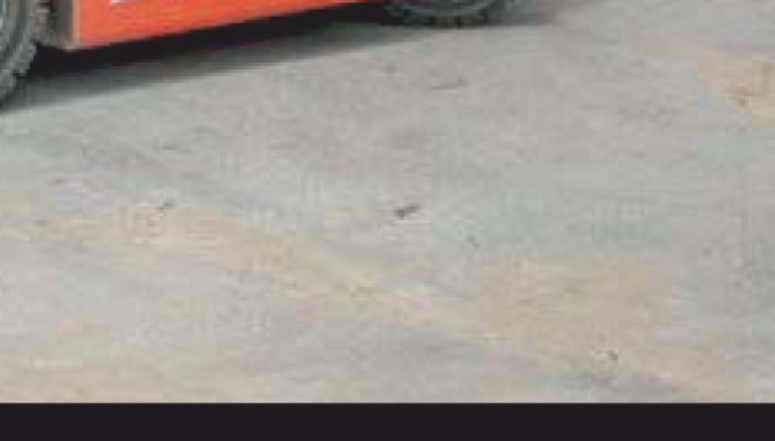

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KUBOTA D1105 3 cylinder power pack 22HP at 3000 RPM continuous. D1105-PP. TA606122. **POA**

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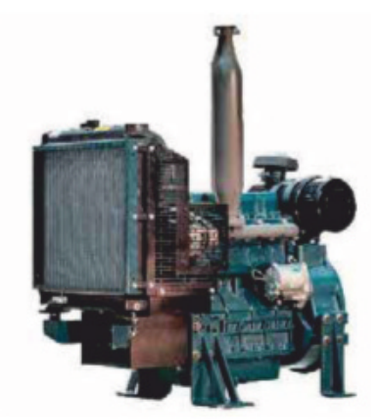

KUBOTA V1505 4 cylinder diesel engine power pack, 29HP at 3000 RPM continuous. V-1505-PP. TA606123. **POA**

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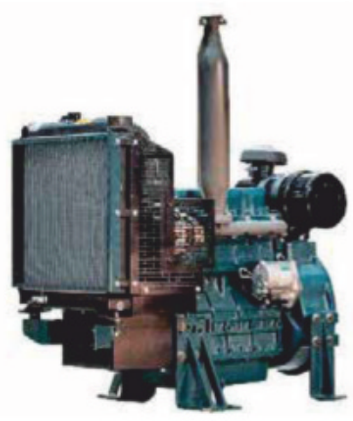

KUBOTA V2203 diesel power pack 40hp countinuous at 2800 RPM. V2203-PP. TA606126. **POA**

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V3300T 72.1hp
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KUBOTA V3300 4 cylinder power pack 59.1hp continuous at 2600 RPM. S151. TA768924. **POA**

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V3800T 82.5hP
Also Available

KUBOTA V3800 4 cylinder power pack 68.5hp continuous at 2600 RPM. S149. TA768919. **POA**

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8 and 9.5hp
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KUBOTA RK70 single cylinder diesel engine 6hp continuous at 2200 RPM. RK70. TA735676. **POA**

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Shaft Options Available

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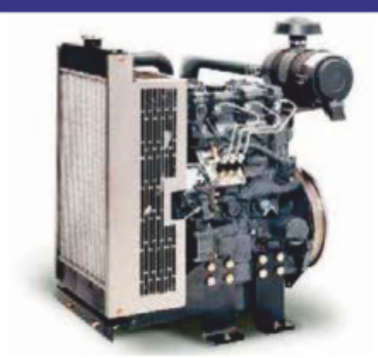
20.0hp



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PERKINS 403D-11 3 cylinder water cooled diesel 20.0HP continuous at 3000 RPM. S279. TA849922. **POA**

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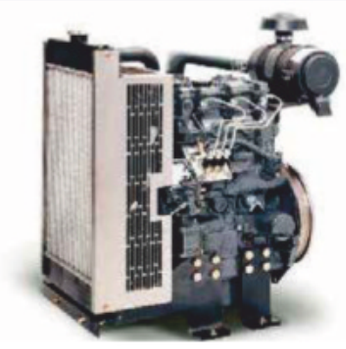
27.4hp



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PERKINS 403D-15 3 cylinder water cooled diesel 27.4HP continuous at 3000 RPM. S268. TA819609. **POA**

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41.9hp

Genuine Engines and Spare Parts

PERKINS 404D-22 4 cyclinder diesel engine 41.9hp continuous at 3000 RPM. S79. TA682093. **POA**

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46.0hp

Genuine Engines and Spare Parts

PERKINS 404D-22T IOPU, 46HP continuous at 2800 RPM. 404D-22T. TA382550. **POA**

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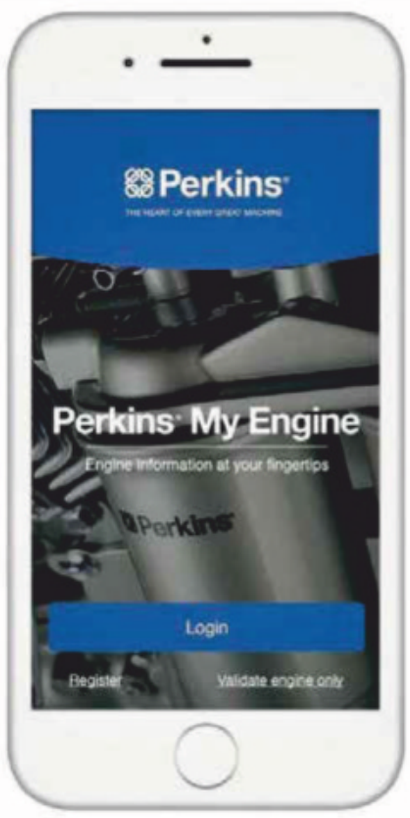

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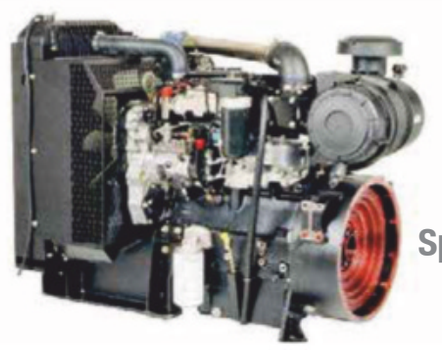
71.0hp



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The Heart Of Every Great Machine

90.4hp

Genuine Engines and Spare Parts

PERKINS 1104A-44T 4 cylinder turbo water cooled, 90.4HP continuous at 2400 RPM. S115. TA682099. **POA**

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104.0hp

Genuine Engines and Spare Parts

PERKINS 1104C-44TA Power Pack 104 hp continuous at 2200 RPM. S284. TA850398. **POA**

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110.6hp

Genuine Engines and Spare Parts

PERKINS 1104D-E44TA Electronic Power Pack 110.6 hp continuous at 2200 RPM. S283. TA850394. **POA**

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169.9hp

Genuine engines and Spare Parts

PERKINS 1106C-70TA mechanical models to 169.9 hp continuous at 2200 RPM available. S285. TA850401. **POA**

The Heart Of Every Great Machine

218.9hp

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PERKINS 1106D-E70TA Power Pack electronic 218.9 hp continuous at 2200 RPM. S286. TA850403. **POA**

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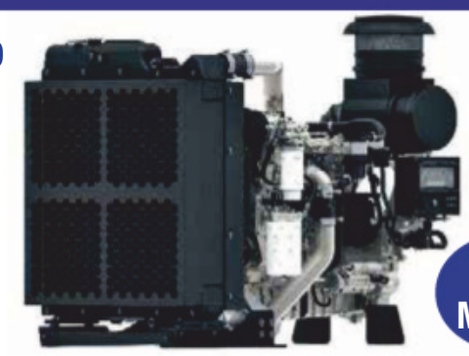
415.0hp



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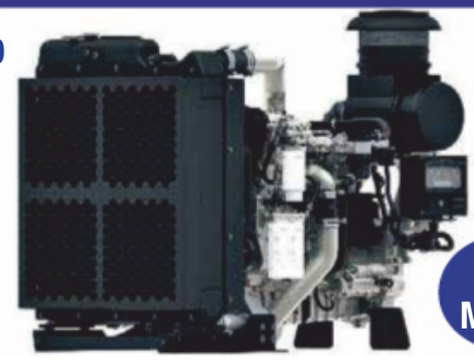
PERKINS 2206D-E13TA 6 Cylinder turbo aftercooled 415hp continuous. S497. TA1008838. **POA**

Reliable Pumping Solutions

450.0hp

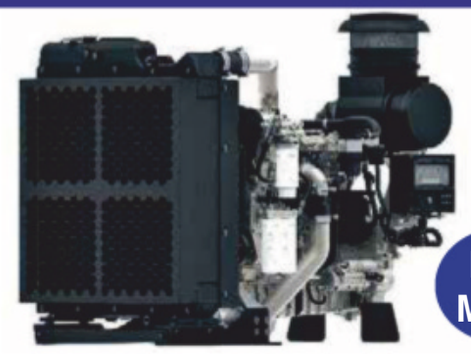


New Model

PERKINS 2506D-15TA 6 Cylinder turbo aftercooled 450hp continuous. S498. TA1008840. **POA**

Reliable Pumping Solutions

600.0hp



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6.7hp

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10.9hp

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KOHLER KD440 single cylinder, air cooled diesel engine 10.9hp at 3600 RPM. KD440. TA728775. **POA**

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KOHLER KD425-2 Twin cylinder, air cooled diesel engine 18.8hp at 3600 RPM. KD425-2. TA728776. **POA**

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23.1hp

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28.5hp

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42.0hp

3 YEAR WARRANTY

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14.2hp

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KOHLER KDW702 2 cylinder water cooled diesel, 14.2 hp continuous at 3600 RPM. s112. TA682436. **POA**

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34.0hp

3 YEAR WARRANTY

KOHLER KDW1603 3 cylinder water cooled diesel, 34 hp continuous at 3000 RPM. S113. TA682440. **POA**

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44.1hp

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54.5hp

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KOHLER KDW2204T 4 cylinder water-cooled turbo 54.5 hp continuous at 3000 RPM. KDW2204T. TA694337. **POA**

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37.8hp

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KOHLER KDI1903M 3 cylinder power pack engine 37.8hp continuous at 2600 RPM. S131. TA747914. **POA**

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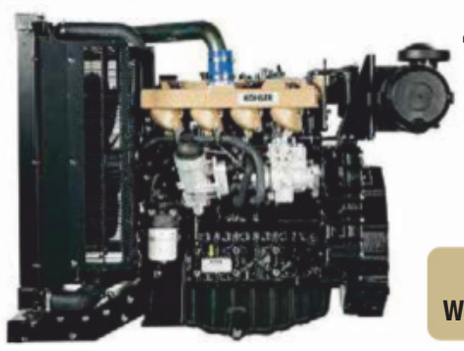

44.6hp

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F2L2011 29.6hp

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DEUTZ F2L2011 2 cylinder diesel engine, 29.6HP continuous at 2800 RPM. S69. TA631651. **POA**

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F3L2011 46.2hp

DEUTZ
The engine Company

DEUTZ F3L2011 3 cylinder diesel engine, 46.2HP continuous at 2800 RPM. F3L2011. TA614111. **POA**

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F4L2011 61.7hp

BF4L2011 74.9hp

DEUTZ
The Engine Company

DEUTZ F4L2011 4 cylinder diesel engine, 61.7HP at 2800 RPM continuous. F4L2011. TA614113. **POA**

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F3L914 55.1hp

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The Engine Company

DEUTZ F3L914 3 CYLINDER AIR COOLED 55.1hp CONTINUOUS AT 2300rpm. S440. TA944732. **POA**

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F4L914 73.4hp

BF4L914 95.2hp

DEUTZ
The Engine Company

DEUTZ BF4L914 4 cylinder air cooled turbo charged 95.2hp continuous at 2300 RPM. S138. TA752454. **POA**

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F6L914 110.8hp

BF6L914 155.0hp

DEUTZ
The Engine Company

DEUTZ F6L914 6 cylinder air cooled diesel 110.8hp continuous at 2300 RPM. S140. TA752462. **POA**

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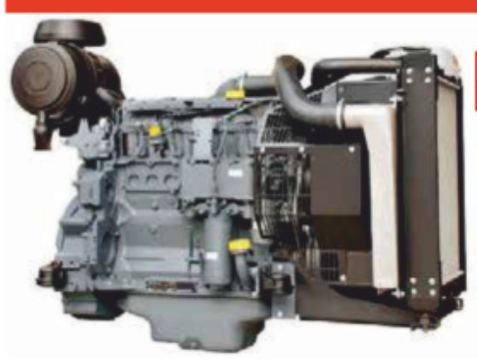
BF4M1013E 108.6hp

BF4M1013EC 132.1hp

DEUTZ
The Engine Company

DEUTZ BF4M1013E water cooled Deutz diesel engine 108.6hp continuous at 2300 rpm. S133. TA752079. **POA**

Deutz Drive The No1 Choice



BF6M1013EC 193hp

DEUTZ
The Engine Company

DEUTZ BF6M1013EC water cooled Deutz diesel engine 193.0hp continuous at 2300 RPM. S136. TA752090. **POA**

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BF6M1013E 164.9hp

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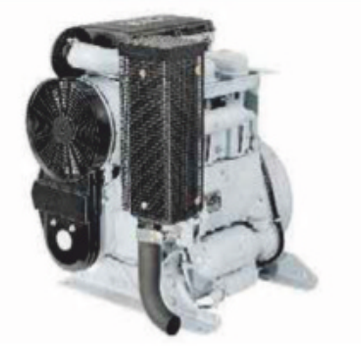

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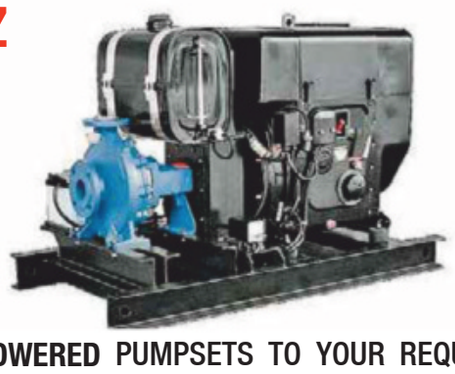

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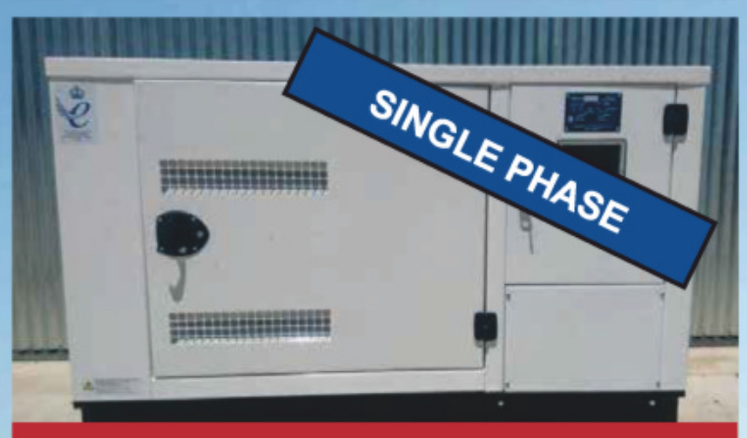

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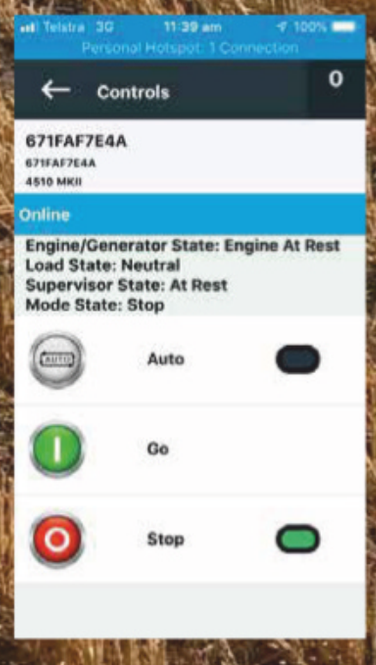

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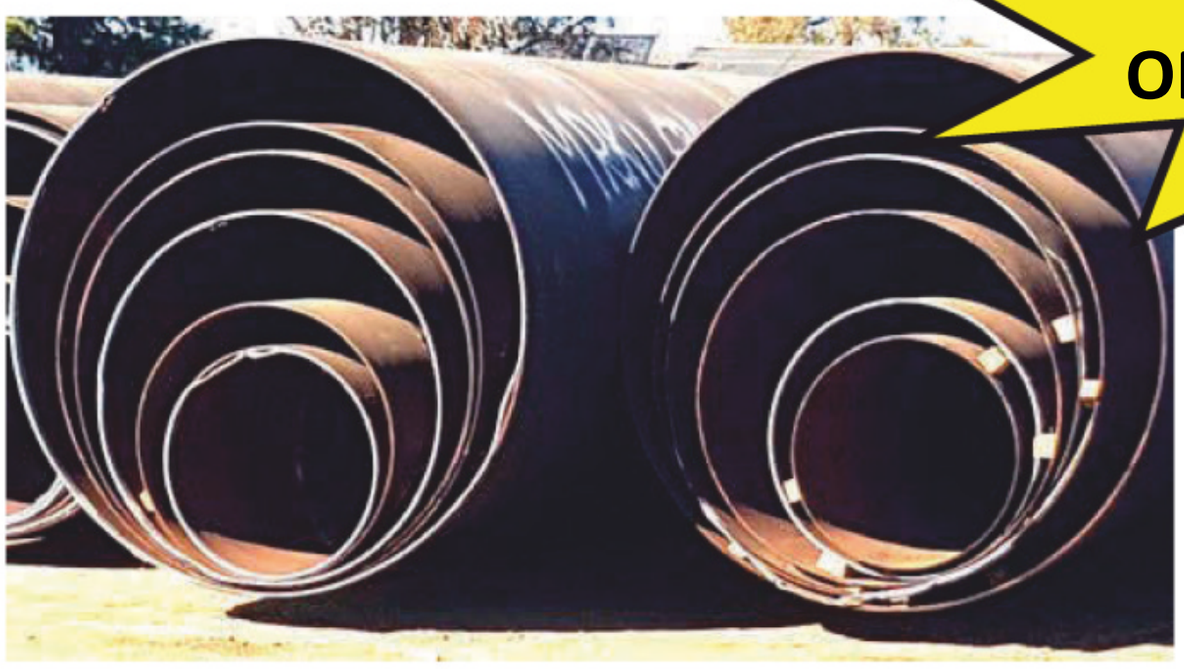

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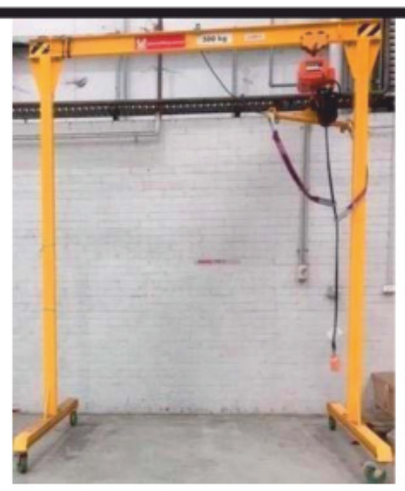

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