

VALTRA TEAM



+ Carefree maintenance

Connect, Care and Go

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+ Demanding conditions

Contracting on the edge with Valtra

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Versatile agricultural machinery

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**MACHINE
OF THE YEAR 2019**

New A Series

MORE PERFORMANCE, INTELLIGENCE AND COMFORT

page 06



EDITORIAL



It's great to report the continued success and growth of the Valtra brand during 2018. We finished with our highest market share achievement to date aligned with a slightly larger total industry compared with 2017, which was a fine result and one which I am most thankful to all our Valtra customers and distribution partners for.

LAMMA Show in January was the launch pad for the new A4 powershift models and at the SIMA show the new models delivered yet another award, this time picking up the "Machine of the Year 2019" for its hp category. For 2019 Smart-Touch has even more technology options available including Section Control and Variable Rate Application and we will see the introduction of Tier 5 compliant machines across most of the horsepower categories during the year.

One area of continued growth is the Valtra Unlimited studio, 1 in 5 tractors produced at the Suolahti factory now go through this industry unique customisation process. We really can deliver exactly what the customer wants right down to his own individual colour preference. Check out the Candy Orange machine in the LAMMA report for an idea of what is possible!

Our dealer network continues to expand and increase coverage for the brand offering better support to our customers. We are looking forward to a strong performance in 2019 and thank you for the support already given that allows the brand to build year on year in a very competitive market place.

Mark Broom
NATIONAL SALES MANAGER



KUVA: HENRI JUONENEN

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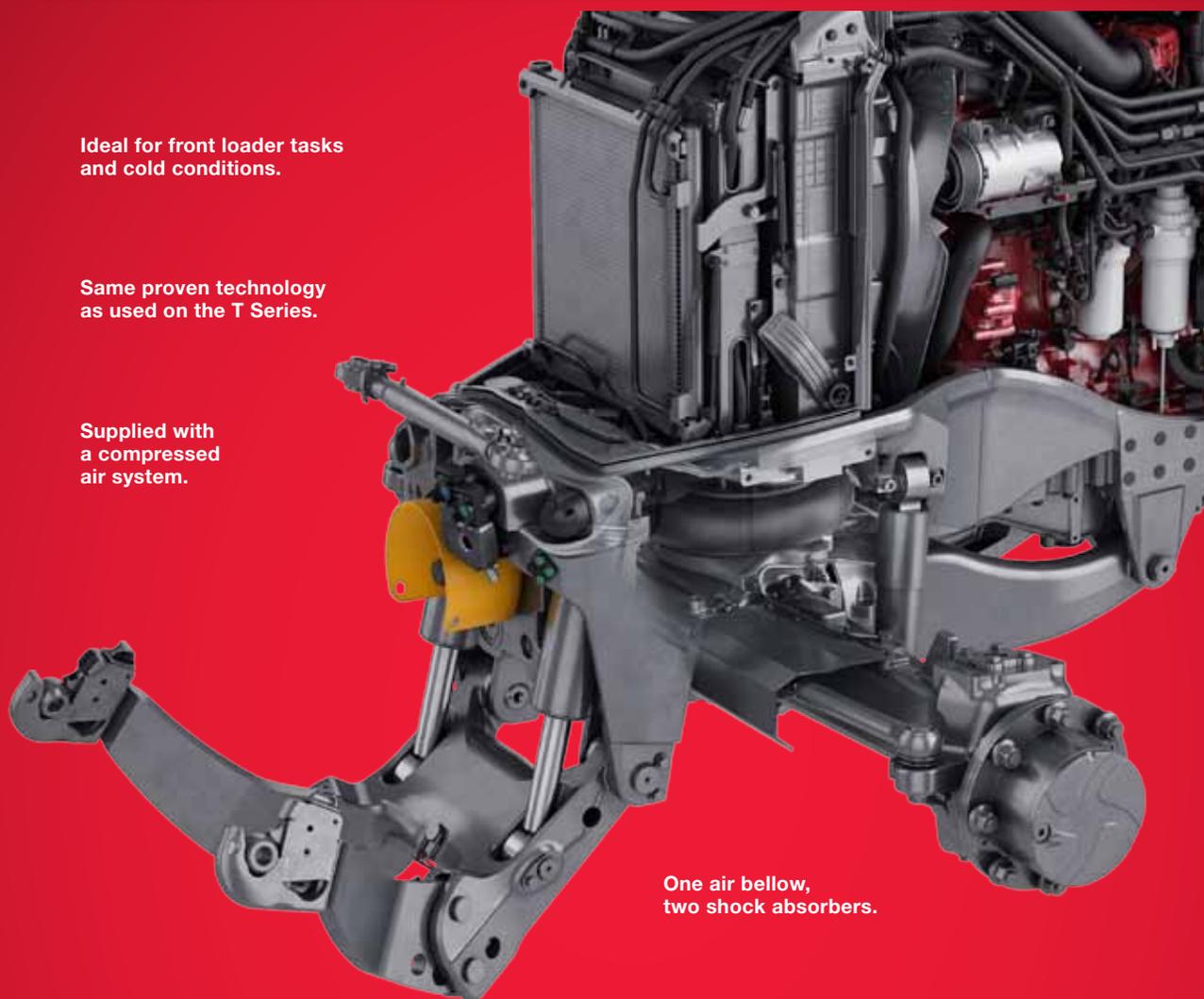
Unique Valtra feature for the past 20 years

Innovation

Ideal for front loader tasks and cold conditions.

Same proven technology as used on the T Series.

Supplied with a compressed air system.



One air bellow, two shock absorbers.

Aires front axle suspension

ALSO AVAILABLE ON THE N SERIES

Air suspension is widely used on commercial and passenger vehicles, but on tractors it has been a unique Valtra feature for almost 20 years. Aires front axle suspension has previously been available as an option on T Series tractors, and now it is also being introduced on the N Series.

An air-suspended front axle responds faster to bumps than hydro-pneumatic suspension. The Aires system uses compressed air supplied by a pneumatic system that is fitted to the tractor and that can also be used for a growing number of

other purposes, such as trailer braking. Air suspension also responds rapidly to even the biggest load changes, for example when using the front loader, and the compressed air system works equally well in hot or cold conditions.

Aires front-axle suspension will become available on Stage V compliant N174 models this spring and on N134 and N154 models in autumn 2019.

Hydro-pneumatic front axle suspension will continue to be available on smaller N Series models.

www.valtra.co.uk

NEWS



Supplies are delivered to Finnish troops in the field in containers transported by Valtra tractors. The same tractors can also be used to maintain roads, plough snow and load or unload supplies, as well as for preparing fortifications.

Finnish and Norwegian defence forces order Valtra tractors

The Finnish Defence Forces ordered 77 Valtra N174 Active tractors and as many FMG hooklift trailers last year. In addition, the contract included front loader equipment, snowploughs and graders. The N Series tractors were specified with front loaders, 57 km/h transmissions and cabs with rifle racks. The FMG trailers in turn were specified with a hooklift system that enables them to carry containers, pallets and other superstructures.

The ammunition, food and other supplies required by the troops are transported in the field in containers. The tractors can also be used to maintain the roads used by the troops in both summer and winter conditions, as well as to unload supplies using their front loaders.

25 to 30 new tractors to Norway

The Norwegian Armed Forces in turn have ordered between 25 and 30 new Valtra tractors. The models and specifications vary according to the needs of each garrison. The tractors are in the 100 to 160 horsepower range, and the contract includes an option for additional tractors.

The procurement decision by the Norwegian Armed Forces was made 50 percent on the basis of price, 10 percent on the basis of quality and 40 percent on the basis of the service network. Valtra was subsequently selected as the best option.

The Swedish Air Force, Danish Coast Guard and Latvian National Armed Forces have also procured Valtra tractors in recent years. •

NEW RADIATORS WITH ROTATING FAN BLADES

Do the engine grilles on your tractor get clogged when mowing dry hay or using an implement with the front linkage?

Valtra has a solution in the form of a new radiator with rotating fan blades that will be optionally available on SmartTouch models of the N and T Series next autumn. A similar system has previously been available from Valtra's Unlimited Studio, but now it is being made a normal option that is fitted on the assembly line.



NEW DUAL LINE HYDRAULIC BRAKE SYSTEM FOR TRAILERS

Following the adoption of Stage V non-road emissions standards, a new dual line hydraulic brake system for trailers will be available for Valtra N and T Series tractors. The EU Regulation on Braking System for Agricultural Vehicles requires that trailers automatically brake if one or both braking lines is broken. In addition, the brake system automatically applies the trailer's brakes whenever the tractor's parking brake is activated.

The new dual line system is also compatible with older trailers that have hydraulic brakes, except without the safety features.

Internet: valtra.co.uk

VALTRA TEAM ISSN 2342-3285 (Print)
ISSN 2342-3293 (Online)

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Publisher Valtra Oy Ab, Valmetinkatu 2, 44200 Suolahti **Translations and editing** Crockford Communications Oy
Layout Juha Puikkonen, INNOOverkko **Printed by** Grano Oy, 2019 **Photo** Valtra archive if not otherwise mentioned

Valtra is a worldwide brand of AGCO

LAMMA SHOW 2019 – A NEW BEGINNING!



Valtra line up at the show – White is the new Black!



Candy Orange T174 Unlimited taking centre stage.



Technology Focus – Connect, Care & Go.



SmartTouch – the easiest to use operator interface on the market.

Over recent years the LAMMA Show has established itself as a premier machinery exhibition for the UK. The show started in 1982 as a major showcase for the latest agricultural machinery for the local farms, established by a small group of local agricultural equipment manufacturers from Lincolnshire. The show in recent years has grown beyond recognition to become Britain's largest machinery show and in 2019 'moved home' from Peterborough to the NEC, Birmingham. The event this year received over 40,000 visitors and with the new format of an indoor show the enthusiasm and interest shown by those that attended was very noticeable, a big change from the potential inclement weather that

we have seen at Peterborough over many years!

Valtra chose LAMMA 2019 to launch the new A4 powershift transmission models (A104 HiTech 4, A114 HiTech 4) which have subsequently been awarded the "Machine of the Year 2019" title for their horsepower category at the Paris SIMA Show.

In addition the new Tier 5 compliant models previewed at the show in N, T and S Series models and will come to serial production throughout 2019. Additional SmartTouch user features were shown as well as new options such as AIREs+ air front suspension on the larger N4 models that will be available towards the summer.

Technology solutions are a key

focus for Valtra and the show also saw the launch of the "Connect, Care & Go" aftersales package to include telemetry, extended warranty and service packages tailored to each customer's needs.

But without doubt the show stopper was the Valtra Unlimited Candy Orange T174 showcasing the ultimate customisation possible with the Valtra brand. 1 in 5 machines produced at the Suolahti factory in Finland now go through the Unlimited Studio, highlighting our personalised approach to make exactly what each customer wants, right down to the colour or the cab trim! •



Powershift gears now also in A-series

Two years after the 4th generation A Series was launched, Valtra has introduced a host of new features in response to customer feedback. As a result, the A Series is now even more versatile, powerful and comfortable tool for handling a wide range of tasks.

TEXT TOMMI PITENIUS PHOTO VALTRA ARCHIVE

The biggest change is the option of a Powershift transmission on A104 and A114 models. The 16+16R transmission has four ranges, each with four Powershift gears. As a result, six gears are now available for field speeds of 4 to 12 km/h. The transmission can also be operated ergonomically with the right hand using rocker switches. For the most part, the clutch pedal only has to be used when setting off or for precise manoeuvring, for example when attaching implements.

In addition to the new HiTech 4 transmission, other options include the traditional 12+12R transmission and the 24+24R version with creeper gears.

A “super crawler” 32+32R version of the new HiTech 4 transmission is also available,



Many new features introduced on the

POWERSHIFT, AND UPDATED

**A Series HiTech 4 models win
Machine of the Year prize in
under-150-horsepower category.**



**MACHINE
OF THE YEAR 2019**



A Series

CAB SUSPENSION CONTROLS



The front loader controls on HiTech 4 models makes loading fast and easy.



The mechanical cab suspension is adjustable and uses double Panhard rods to stabilise the cab.



The transmission is easy to use thanks to the ergonomic lever and rocker switches.



The new instrument panel is clearly laid out, and the screen is visible even in strong sunlight.



The new A Series can be fitted with a front linkage or front PTO at the Unlimited Studio.

linkage open up brand new opportunities for the A Series, including the use of front mowers, which is popular in many countries.

More comfort

The latest A Series also offers more comfort.

HiTech 4 models can be specified with mechanical cab suspension, which uses double Panhard rods to stabilise the cab.

A new instrument cluster inside the cab also enhances the work experience. The digital display lets the operator select what information to display, and the bright screen can be read easily even in strong sunlight.

The electronic control system for the front loader on HiTech 4 models is also new and easier to use. It now features a floating position for tilting implements. The front loader, Soft-Drive and hydraulic coupling can all be activated using the controls on the driver's armrest.

Available now

The new A Series models are available immediately. Series production of the A104 and A114 HiTech 4 models began at the same time that they were unveiled for the first time at the LAMMA 2019 Agricultural & Machinery Show in the UK on 8 January. Demo tractors should be available at dealers in all Valtra markets this spring and summer. •

Valtra A Series				
Model	Engine	Power (hp)	Power (kW)	Torque (Nm)
A104	44 AWFC	100	75	410
A114	44 AWFC	110	82	417
Transmission options				
12+12R		16+16R		
24+24R creeper transmission		32+32R creeper transmission		

enabling work speeds as slow as 100 metres per hour.

More performance

The latest A Series makes it possible to get more done in the same amount of time.

The A104 and A114 HiTech 4 models are powered by 4.4-litre AGCO Power AWFC engines producing

100 and 110 horsepower. These engines comply with Stage IV emissions standards using SCR technology that reduces fuel and maintenance costs.

Front PTO and a front linkage can now be fitted to all A104 and A114 models at the Unlimited Studio at the Valtra plant in Suolahti, Finland. The addition of front PTO and a front

NEW FEATURES ALSO ON THE N, T AND S SERIES

In addition to the new A Series Powershift models, Valtra has also introduced a wide range of new features on S, T and N Series tractors.

The latest versions of the T and N Series can be identified most easily by their exhaust pipes, which have been changed to comply with the latest Stage V emissions standards. The new exhaust pipes are narrower and allow better visibility from the cab. You can read more about other engine changes on page 12.

The latest version of the S Series in turn now has the same tail lights as Valtra's other model series. Shaped like an ice hockey stick, the new LED tail lights have been a characteristic feature on new Valtra tractors since the introduction of the T4 in 2014. Access to the cab has also been made easier. The S Series was originally available only in red and later also in black. The new S Series is now available in red, black or white.

More intelligence

SmartTouch models in the N, T and S Series can now be specified with a second terminal in addition to the armrest display. The additional terminal can be used for ISOBUS implements or an external camera. HiTech and Active models in N and T Series tractors with Stage V engines can also be specified with an additional terminal that can be used for precision farming features, such as AutoGuide automated steering and ISOBUS implement control.

The easy-to-use and flexible SmartTouch armrest has proven to be extremely popular. In addition, around 40 percent of tractors with SmartTouch armrests are also ordered with AutoGuide automated steering direct from the factory.

Precision farming features are being made available for both existing and new tractors, as tractors specified with the SmartTouch user interface enable the use of both Variable Rate Control and TaskDoc. These tractors can already use the Section Control feature to automatically control implements across their entire width. •



The new S Series can now be ordered from the factory in a variety of colours.



The latest version of the S Series now has the same LED tail lights as 4th generation Valtras.



The new T and N Series models can be identified by their narrower exhaust pipes, which allow better visibility from the cab.



On the left: HiTech and Active models in N and T Series tractors are now available with the same user interface as on SmartTouch models. The terminal enables the use of precision farming features, such as AutoGuide automated steering.



On the right: Access to the cab of S Series models has been made easier, and there is more space inside the cab for small items.

We make our own roads in Scotland!

CONTRACTING ON THE EDGE WITH VALTRA

TEXT DAVID JONES PHOTOS HUGH MACQUEEN

One of Alistair Young's most enthusiastic customers is **Hugh Macqueen**. Starting out in the contracting business on his own account after leaving school in 2001, Hugh subsequently joined R A Laird Contractors at Ballinluig, to the north of Perth.

Laird already operated a fleet of Valtras and Hugh started out with a brand new T131, carrying out a range of seasonal tasks including scrub cutting with a side-arm flail mower in the winter. From that point, he takes up the story...

"In 2011, I left Laird's and went back home with the Valtra 'bug'," he recalls, "starting out on my own account again with a 55-plate T180, doing a variety of farm work

and the occasional construction job." This machine was the mainstay of the business for several problem-free years before be-

ing replaced with a 09 T202. This, in turn, was succeeded by a new T194 and joined shortly after by new T174.



TwinTrac reverse drive is a valuable option for Hugh's operations.

“The 194 went straight out on hire to work on the construction of the Corriegarth wind farm, which is quite local to us,” Hugh explains. It was traded in two hard-working years later, with 5000 hours on the clock and was entirely problem-free, with the exception of a compressor belt replacement.

Then, in 2017, the Macqueen fleet was boosted further with the arrival of a S294 reverse-drive model. This was put straight to work on another wind farm project – this time involving the installation of 66 turbines at Stronelaig, above Loch Ness.

“The terrain there rises to over 800m above sea level,” Hugh states, “and is notorious for its harsh winters of snow, frost and high winds.”

The principal tasks on this job involved low-loader work – pulling plant and equipment the 14-plus uphill miles – dust suppression using 3000-gallon tankers, and spreading aggregates on the roads with a purpose-built 5m width grader. In addition to that, there was a good deal of snow clearing in the long winter months, using V-ploughs and a pair of Westa snow blowers.

“The S294 came home at the end of January 2017,” Hugh re-



The T174 and S294 make a formidable team when working together clearing snow in the winter.

ports, “and came off-hire in August 2018, having clocked 4000 hours. The new T194 SmartTouch arrived in the December and has completed 2500 hours so far. The Smart-Touch has definitely been a huge step forward from the old-style armrest.”

The T174 looks after the farming side of the contracting business, where it’s joined by a T151 carrying out a range of tasks, apart from sowing cereal crops and spraying.

“The S294 joins in with the farm duties over the summer,” he says, “taking its turn with the triple mowers and hauling silage – together with a bit of site work, in tandem with a 24t dump trailer and 30t low-loader.

Hugh adds that all the tractors will be back on snow-clearing duties over the winter, ensuring access to seven different wind farms around Loch Ness over the period between November and March.

Asked if there are any aspects of his Valtra tractors he would change, Hugh points at just two: “Firstly, I’d like to be able to carry



Cold starting is no problem for a Finnish tractor!

out a Cat Burn-out without having to call out a fitter. And, second, the S series – while being a really good tractor – would benefit from a cab re-design.”

“All our tractors and most of our machines come from Alistair Young Engineering at Dunphail,” he says.

“Dealer back-up is a major thing for us and the support we receive from them is second to none. I know that if there’s a problem at all – any day, any time of day – or night (yes, it has happened!) – that somebody will answer the phone and it will be sorted asap. That, to me, is as important as the machine itself.” •



The Valtra S294 on haulage work in support of the groundworks element of the business.



New turbochargers and hydraulic valve adjustment

FASTER RESPONSE AND LOWER FUEL CONSUMPTION

Valtra N, T and S Series tractors are getting new engines to comply with Stage V emissions standards. AGCO Power's Stage IV engines were already very advanced, so it was possible to comply with the new stricter emissions standards with relatively small changes. The new engines will feature hydraulic valve adjustment and completely new software, as well as new turbochargers in some of the engines.

TEXT TOMMI PITENIUS PHOTO VALTRA ARCHIVE

Hydraulic valve adjustment automatically maintains the optimal valve clearances.



Hydraulic valve adjustment

Hydraulic valve adjustment automatically maintains the optimal valve clearances. This optimises the engine's performance, thereby saving fuel and extending engine life.

The biggest savings, however, are in terms of faster servicing. Previously, it could take several hours, depending on the tractor model and specifications, to remove all the components above the engine before the valve cover could be reached. Hydraulic valve adjustment eliminates the need to go through this long procedure in order to manually adjust the valves, saving both time and money.

New software

In order to comply with Stage V emissions standards, the software for the engine control unit of AGCO Power engines has been fully updated. The new software optimises both performance and fuel consumption. The updates also enable the engine to react faster to changes in load.

Even more economical

Stage V engines manufactured at AGCO Power's Linnavuori plant in Finland feature a new manifold, as well as a new turbocharger on some models. The modifications comply with the latest emissions standards while also reducing fuel consumption by up to 3 percent. •

AGCO invests over 100 million euros in Linnavuori engine plant

A GCO is investing well over 100 million euros in the AGCO Power engine plant in Linnavuori, Finland, over the next five years. The investment covers a new factory building, new machinery and equipment, and R&D for an entirely new family of engines. At the same time, new manufacturing processes will be introduced; for example, machining and assembly will be separated in different buildings.

The new engines are being designed to be even more fuel efficient, cleaner and easier to manufacture. The new family of engines will also be even more versatile for use in a wider range of on-road and off-road applications. Production of the new engines is scheduled to begin in the new plant in 2022.

"Combustion engines are and will continue to be the primary power source for heavy machinery. Engines are becoming more environmentally friendly due to emissions regulations and renewable fuels. Our new engines will also be suitable for hybrid and electric applications. For us at the Linnavuori engine plant, this investment represents a tremendous show of confidence in us and reinforces our belief in the future," says **Juha Tervala**, Managing Director of AGCO Power.

AGCO Power manufactures engines in four plants: Linnavuori (Finland), Changzhou (China), Mogi das Cruzes (Brazil) and General Rodriguez (Argentina). The combined capacity of AGCO Power's plants is over 100,000 engines per year. In spring 2018, AGCO Power celebrated its 75th anniversary and one millionth engine. •



Over 100 million euros is being invested over the next five years in the AGCO Power engine plant in Linnavuori, Finland. A big part of the investment will go into the design of an entirely new family of engines, and the R&D work has already begun.



Valtra now offers three convenient service packages that make tractor ownership easier and less stressful. Customers can choose the most suitable service package for their own needs or even combine them.

Three levels of care

CONNECT, CARE AND GO

TEXT TOMMI PITENIUS PHOTO VALTRA ARCHIVE

Valtra is making tractor ownership easy and carefree by offering customers three service packages to choose from.

Valtra Connect is based on a transmitter in the tractor that sends tractor data to the internet. This enables customers to check the location of their tractors and signals from the CAN bus, for example, on their home computers or mobile devices. Customers can also authorise their local service technicians to access the data and thereby plan scheduled maintenance in advance, as well as check faults remotely.

Valtra Connect is available on 2018 and newer N and T Series

tractors. Further information about using the service is available from dealers.

Anticipate costs

Valtra Care is available for up to 1+4 years or 4200 usage hours. This service package makes it easy to plan tractor costs precisely and for years in advance without any unpleasant surprises.

Valtra Go covers all scheduled maintenance for the number of hours specified in the agreement. Valtra Go helps anticipate tractor costs and is ideal for contractors, larger companies, municipalities and other public sector customers. •

New service packages offer three levels of care

Valtra Care covers unexpected maintenance costs even after the warranty period. This service package is available for up to 1+4 years or 4200 usage hours. The deductible is 0, 290 or 590 euros, depending on the service level. Terms and conditions may vary in different countries.

Valtra Go offers a carefree ownership experience, enables customers to anticipate costs, and maintains the resale value of the tractor. This service package covers all scheduled maintenance for the number of hours specified in the agreement.

Valtra Connect enables customers to monitor the functions of their tractors remotely using their home computers or mobile devices. Customers can also authorise their local service technicians to access the data.

Connect service is included on new N and T Series tractors sold in 2019.

This service is free of charge for the first three years, after which an annual fee is charged.

Mackay staff:
Alan Mackay,
Irene Mackay and
Ross Anderson.

GROWING BUSINESS BRINGS IN NEW VALTRA CUSTOMERS

TEXT AND PHOTO DAVID JONES



Just over two years into its appointment as a Valtra dealership in the north-east of Scotland, **Alan Mackay Machinery** has already made an encouraging impact on the region's farming community. So much so, that the company has already opened a second branch – in Aberdeenshire – to run alongside its long-standing Forfar base.

Serving the farming sector for 25 years now, initially as a sole trader dealing in second-hand machinery, proprietor Alan has seen the business grow to the extent that, last year, he took on additional trading area by acquiring a site at Rothienorman, so giving farmers access to Valtra tractors across Tayside, Kincardineshire and Aberdeenshire.

"The area that we cover from Forfar is predominantly arable – wheat, barley, oats, rape and potatoes – while the Aberdeen territory is home to much more of a mixed regime by and large," he explains.

"So far, we've sold a fair spread of the individual models, though more of the T Series, with the N Series coming in now. In particular, the A Series is likely to be popular in the area served by the Rothienorman de-

pot. In addition, widening the service intervals from 500 to 600 hours has also been well received.

"We've now got Valtra-trained engineers at each location, out of a total staff line-up of 16, five of them based at Rothienorman," states Alan, who is one of three directors of the business, along with his wife, **Irene**, and Service Manager **Ross Anderson**.

Excellent service and winning features

The Mackay team is pleased by the proportion of customers deciding to invest in a Valtra tractor for the first time.

"There's a number of features that have boosted the appeal for sure, reflected in the high percentage of those who are new to the brand," Alan observes.

"These will include the level of comfort provided in the cab, the GPS options and the introduction of SmartTouch, which has been requested on a high percentage of tractors ordered since it became available and is appealing to the younger generation of farmers especially. The new high-speed (57 kph) specification option is also pulling

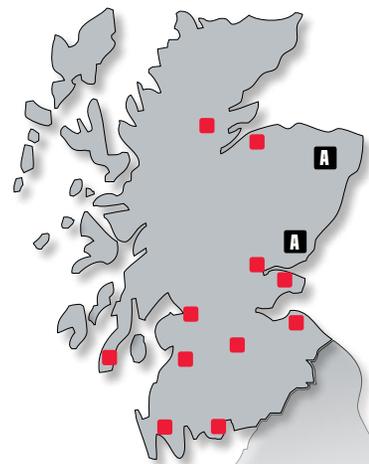
people in," he adds.

The Mackays have also been impressed by the Valtra dealer back-up.

"The Area Sales support from **Martyn Atkinson** has been very good, as is the relationship with AGCO generally," according to Alan.

Martyn points out that in the two years since winning the Valtra franchise, Mackays have sold almost 100 tractors, representing a market share in the region of around 16 per cent.

"They provide excellent service back-up that's helped in turn to build sales," he adds. •



A Alan Mackay Machinery Ltd.

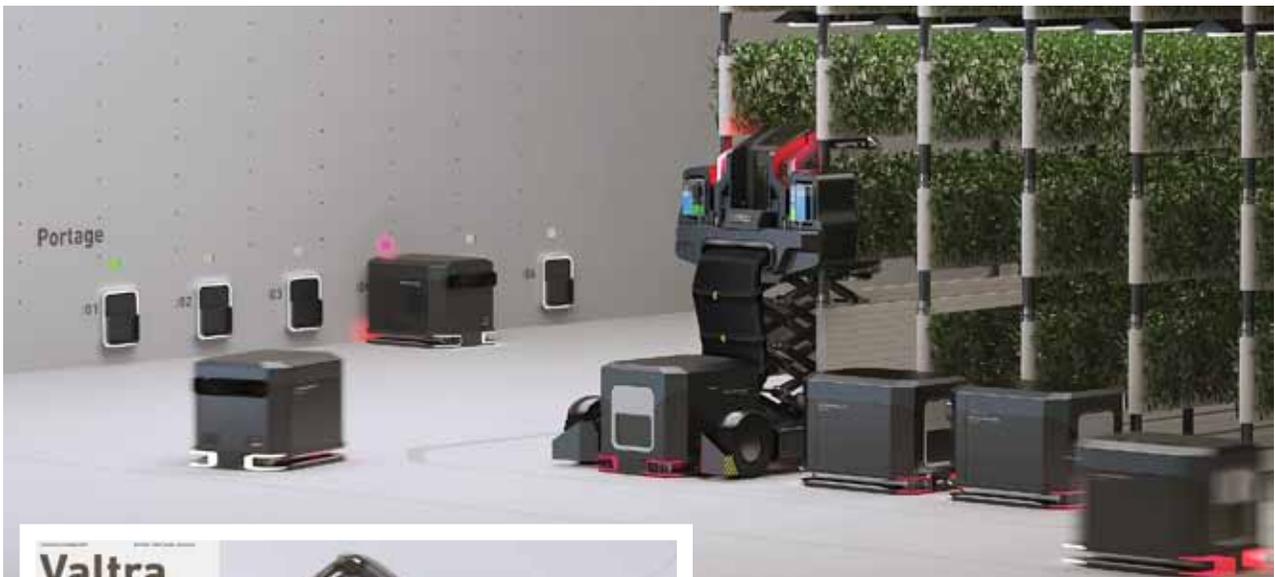
DESIGN COMPETITION FOR CREATING VERSATILE AGRICULTURAL MACHINERY



VERTICAL Design team: Benjamin Miller, Jack Morris ja Alireza Saeedi (Austria)

Vertical farming involves farming indoors on multiple floors, which enables bigger yields with less water, soil and fertilisers. The development of LED lamps has made vertical farming a viable alternative even in urban environments.

The winning entry is a versatile and holistic future concept that covers all aspects, from seeding to food distribution. It involves an aeroponic water farming system that suspends the crops on a scrolling belt that can be driven from one end by a vertical tractor, that harvests and seeds at the same time. A drone logistic system then collects and transports the produce, similar to an automated warehousing system.



Valtra multipurpose vehicle for 2030

Valtra Design Challenge 2018. A global competition for industrial designers.

Task: Design a multipurpose vehicle of the future that differs from the strongly specialised machinery of today. **Entries:** 107 from 32 countries. **First prize:** 10,000 euros.

An international jury consisting of five members selected the winning entries, which were announced at the EIMA International Expo in Bologna, Italy, in November 2018.



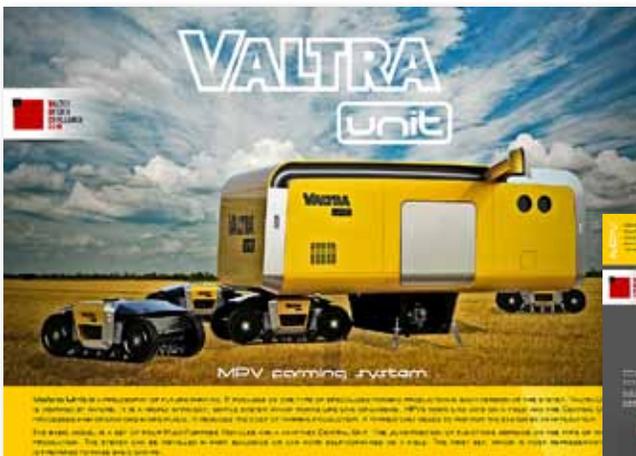
V-Icon Design team: Yuri Kozowski ja Paulo Biondan (Brazil)

The V-ICON is a multifunctional and versatile agricultural machine that adapts to different dimensions. The machine can be used for big or small farms, as multiple units can be attached to each other either side by side or in a row. The designers focused on simplicity in keeping with their philosophy that “less is more”.



Unit Designer: Tomasz Miłosz (Poland)

The basic model for Unit is a set of four MultiPurpose Vehicles and a main-task Central Unit, which is transported by the four MPVs. The MPVs can also harvest and seed at the same time, and they return to the Central Unit to unload and recharge.



TRACTOR PRODUCTS FOR PROFESSIONALS

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AM PRODUCTS:

- Front ploughs
- Runway sweepers
- De-icing spreaders
- Washers



ROAD INTELLIGENCE

www.arcticmachine.com





Tractor

= a vehicle for pulling implements powered by a combustion engine

Traction engine

= an engine or vehicle for pulling implements powered by a steam

These two tractor models are separated by well over a 100 years but still share the same Nordic roots.

106 YEARS OF NORDIC TRACTORS

Tractors have been built since 1889, although the first models were not yet fully functional.

The first functional tractor powered by a combustion engine came three years later, in 1892, when the Waterloo Gasoline Engine Company in the USA unveiled the Waterloo Boy. In the same year, Case also built its first diesel-powered tractor, so this year marks the 130th anniversary of the tractor. Valtra's own roots stretch back 106 years.

The Valtra story begins in 1913, when Munktells combined an internal combustion engine with a locomotive chassis, creating its first tractor. You can read more about these first models in the previous issue of Valtra Team.

The Munktells 20-24 model was launched in 1916. The new model weighed 4.2 tonnes, just half the amount of the original tractor. As the model designation suggests, the engine produced 20-24 horsepower. Altogether 2270 units were manufactured until 1925. Although it found general acceptance among farmers, real demand for tractors did not come until the 1930s. The first model with the basic dimensions of a modern tractor came already in 1921 with the launch of

the Munktells 22. The new model offered 22-26 horsepower and weighed a reasonable 2580 kilos.

J & C G Bolinders Mekaniska Verkstad and Munktells Mekaniska Verkstad merged to form AB Bolinder-Munktells in 1932. Their first model was the BM 25, which was also the first to feature inflatable rubber tyres. This innovation increased maximum speed to 14 km/h. The BM 25 was powered by a Bolinder semi-diesel, which has certain similarities to a modern dual-fuel engine.

Meanwhile, AB Volvo began manufacturing tractors in 1943. Volvo's first model was the T41, which was developed together with Bolinder-Munktells and was essentially the same as the BM model. The only differences were the engine and colour options: BM tractors were green,

Volvo tractors red. Both Volvo and BM tractors got the same red colour in 1957. The BM Volvo brand name was also introduced in the late 1950s.

In Finland, Valmet began manufacturing tractors in 1951. Valmet and Volvo BM merged in 1979, creating a truly Nordic tractor brand. In this way, today's Valtra has both Finnish and Swedish roots. Following the merger, work began on designing a brand-new series of tractors. The Volvo BM Valmet 05 Series was duly launched in 1982.

It is worth noting that, throughout the history of Volvo, BM, Valmet and Valtra, at least some of their tractor models have been able to run on diesel, either entirely or in part.

The history of Valtra and Nordic tractors therefore stretch back an impressive 106 years. •

Technical specifications	Munktells 30-40	Valtra T4
Engine	2 cylinders 2 stroke	6 cylinders 4 stroke
Displacement	14 litres	6,6 / 7,4 litres
Power	30-40 hp	170-270 hp
Cooling system	380 litres	28 litres
Transmission	3+1	30+30 / ∞+∞ (CVT)
Max. speed	4,4 km/h	43 / 53 / 57 km/h
Fuel tank	140 litres	380 litres
Weight	8,3 tonnes	7,3 tonnes

VALTRA AT THE CORE OF N



From L to R: James Ashbrook, John D Bownes, Mike Ashbrook, John C Bownes.

Ashbrook Plant is one of the leading plant and access hire companies in the North West, North Wales and Anglesey. The company has had dealings with **John Bownes** for many years and, in fact, it was at the Bownes sub-dealership DJS,

at Amlwch, Anglesey, that Ashbrook first made the decision to try the Valtra brand, adding several tractors to the company fleet.

Company boss **James Ashbrook** and his team were sufficiently impressed with their performance that a much larger consignment was pur-

chased to equip all the firm's depots, which include Congleton and Warrington.

James explains the initial attraction: "We'd had several other tractors from competing manufacturers, but found that since the Valtras went into the fleet – especially those used on

W PLANT HIRE BUSINESS



Line up of the new fleet of Valtra tractors at dealer John Bownes Ltd. Ready for hand over.

groundworks contracts – they were using just half the fuel that we had been putting into other makes' similar models.

Ashbrook currently has 24 Valtras in its machinery hire fleet – 13 x T174, 7 x T254, 1 x T154, 2 x T144 and a single A92.

“They have been used to carry out a whole range of tasks – for agricultural contractors, farmers, on construction sites, in quarries and in the forestry sector,” states James.

The hire firm likes to get as much feedback from its customers as it can, in order to remain at the forefront of the plant hire industry in its region. So, James places great store in the comments coming back from the Valtra hirers: “The most common points mentioned include the fact that they have plenty of power and that the fuel consumption is good,” he says.

“They like the cab environment too, which they describe as spacious and with a bright and airy feel.

With regard to Ashbrook's machine replacement policy, the aim is

to renew after a maximum of three years, but James says that in most instances, this happens after 12 months.

“We invest heavily in our machinery fleet to try and ensure that we are at the forefront of product safety, while guaranteeing high performance and energy efficiency with every hire,” James explains.

“Our locally resourced business allows us to offer competitive rates, comparative to our measured overhead.”

“Although our bases are located in the North West, North Wales and Anglesey, we are able to provide the same service nationwide to any of our customers. This is made possible by having an external transport division, which means we can offer a competitive price to travel further afield.” •



Snowboarding world champion and forester Roope Tonteri

"TRACTOR CONTRACTING IS MY FUTURE PROFESSION"

TEXT TOMMI PITENIUS PHOTO HENRI JUUVONEN AND VALTRA ARCHIVE

Roope Tonteri is well known in Finland as three-time snowboarding world champion, having won gold in both slopestyle and big air in 2013 and gold again in big air in 2015. What even Finns might not know about him is that he is studying forest management and dreams of a career in tractor contracting.

"I can't think of anyone else in skateboarding or snowboard-

ing who does forestry work and owns a tractor. I guess most of the guys prefer surfing in California over working with tractors," Roope laughs, standing up to his knees in snow and holding a chainsaw in his hand as he answers his phone.

Roope grew up in the Finnish countryside, although not on an actual farm. Nevertheless, he has done forestry work since he was a lad and helped his relatives with

the farming. Just recently he purchased 20 hectares of forest, which will keep him busy for a while.

"Snowboarding is still my main job and will be for at least the next three years, until the Winter Olympics in Beijing in 2022. Once that is done, I'll have to see if I continue my career as a snowboarder or become a full-time forester instead," Roope explains.

Roope purchased a Valtra A94 tractor last year. Equipped with a front loader, he has used his new tractor for snowploughing and forestry tasks – as well as for building snowboarding jumps on his own slope.

"I have a Kesla forest trailer on my wish list, and then in three years' time I will have to think whether to have one tractor just for transporting logs and another for thinning tasks. I could then use both tractors also for farming tasks, transportation and snow ploughing," Roope adds. •



Three-time snowboarding World Champion Roope Tonteri plans a career in forestry and tractor contracting after he eventually retires from professional snowboarding, but right now he is fully focused on snowboarding and does forestry jobs only when he gets the chance.

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V42701760

CHILD'S BEANIE | **£ 10.50**

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GIRL'S T-SHIRT | **£ 14.10**

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PEDAL TRACTOR
BATTERY-POWERED | **£ 316.10**

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Valtra Models



MACHINE OF THE YEAR 2019



A SERIES

MODEL	MAX. HP*	
	STANDARD	BOOST
A74	75	
A84	85	
A94	95	
A104	100	
A114	110	
A124	120	
A134	130	
A104 HiTech 4	100	
A114 HiTech 4	110	



T SERIES

MODEL	MAX. HP*	
	STANDARD	BOOST
T144 HiTech	155	170
T154 HiTech	165	180
T174 Eco HiTech	175	190
T194 HiTech	195	210
T214 HiTech	215	230
T234 HiTech	235	250
T254 HiTech	235	271
T144 Active	155	170
T154 Active	165	180
T174 Eco Active	175	190
T194 Active	195	210
T214 Active	215	230
T234 Active	235	250
T254 Active	235	271
T144 Versu	155	170
T154 Versu	165	180
T174 Eco Versu	175	190
T194 Versu	195	210
T214 Versu	215	230
T234 Versu	235	250
T254 Versu	235	271
T144 Direct	155	170
T154 Direct	165	180
T174 Eco Direct	175	190
T194 Direct	195	210
T214 Direct	215	230
T234 Direct	220	250



N SERIES

MODEL	MAX. HP*	
	STANDARD	BOOST
N104 HiTech	105	115
N114 Eco HiTech	115	125
N124 HiTech	125	135
N134 HiTech	135	145
N154 Eco HiTech	155	165
N174 HiTech	165	201
N134 Active	135	145
N154 Eco Active	155	165
N174 Active	165	201
N134 Versu	135	145
N154 Eco Versu	155	165
N174 Versu	165	201
N134 Direct	135	145
N154 Eco Direct	155	165
N174 Direct	165	201



S SERIES

MODEL	MAX. HP*	
	STANDARD	BOOST
S274	270	300
S294	295	325
S324	320	350
S354	350	380
S374	370	400
S394	400	405

*ISO 14396



**YOUR
WORKING
MACHINE**