

# VALTRA TEAM

VALTRA

+ In Derbyshire  
**Making  
a difference**

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on roof helps  
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Smart farming in Switzerland

# SWISS FUTURE FARM USES NEWEST TECHNOLOGIES

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**EDITORIAL**



**T**he end of 2019 was a very busy time for us and I am pleased to say that we ended the year on a high with a market share of 5.4%. We hope to improve on this further and sustain this upward trend for 2020.

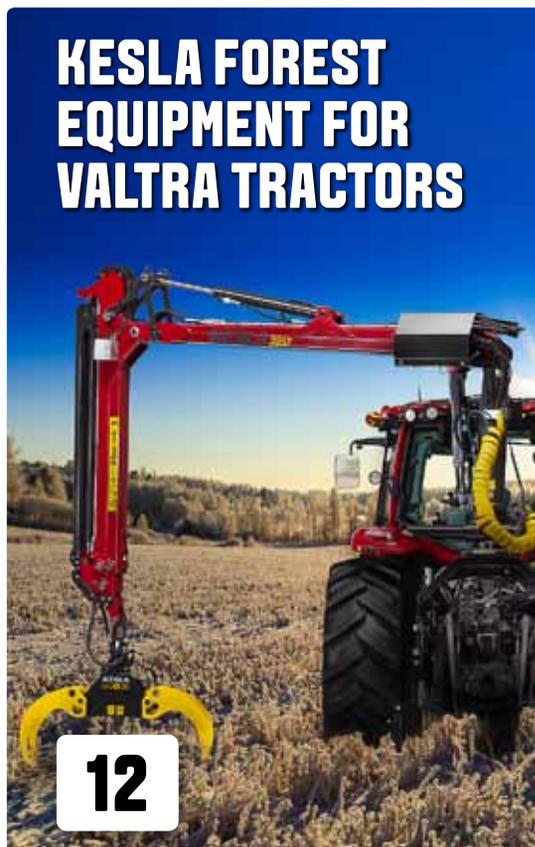
During January we attended the LAMMA show at the NEC, Birmingham. It proved to be a very successful couple of days with a steady flow of visitors to the stand. It was a great opportunity for myself and the team to meet and speak with customers. We also recognised all of the support given to the brand by our network of dealers by presenting our annual Dealer of The Year award at the show evening.

In March we invited dealers, customers and prospects over to Suolahti, the home of Valtra tractors, for a tour of the factory to see first-hand how they are manufactured. Everybody had a wonderful time and were really able to immerse themselves in the culture of our brand.

Over the next few months we will be attending a number of other high profile shows here in the UK. The first one being the Grassland and Muck event in May which attracts over 11,000 visitors and this year takes place at the Ragley Estate. Following on from that we will be attending the Royal Highland Show in June and the Royal Welsh Show in July.

We go into 2020 with a complete suite of Smart Farming solutions and a full line up of products, including our new compact F Series. This year will see further exciting product developments – watch this space!

Alan Sanderson  
MANAGER, NATIONAL SALES, VALTRA, UK & IRELAND



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- ➔ Popular in the Nordic region and the Alps
- ➔ Suitable for forestry, agriculture, earthmoving and contracting
- ➔ Reliable pulling power in extreme conditions
- ➔ Trailers with mechanical drive available from numerous manufacturers
- ➔ Available on Valtra F, N and T Series tractors



## GROUND SPEED PTO EVEN WITH STEPLESS TRANSMISSIONS

Ground speed PTO is a powerful tool for forestry tasks, earthmoving, mountainous regions, spreading lime, peat bogs and spreading slurry. Even on steep slopes or unsolid ground, ground speed PTO can transmit power to the wheels of a trailer by means of a mechanical axle. With power to all the wheels on the tractor and trailer, the combination can pull itself out of any situation, practically up a vertical wall.

Even though ground speed PTO is known everywhere, it is particularly popular in the Nordic region, particularly in Finland, as well as in Northern Italy. In Scandinavia it is widely used on large tractors and for heavy contracting tasks. In Northern Italy, ground speed PTO is a common feature that

farmers use to pull heavy loads up the steep Alpine slopes. Ground speed PTO is also popular throughout Europe for pulling heavy timber loads over short distances. Basically, ground speed PTO is used whenever uninterrupted pulling power is needed in extreme conditions.

Ground speed PTO is available on all Valtra F, N and T Series tractors. N and T Series Direct models are the only tractors that feature both a stepless transmission and ground speed PTO. The leading trailer manufacturers offer forest, earthmoving and spreading trailers with mechanical drive by order. •

[www.valtra.co.uk](http://www.valtra.co.uk)

# NEWS



## SMARTGLASS HELPS IN FRONT-LOADER TASKS

**S**martGlass has received a lot of positive feedback in user tests. SmartGlass has been found to be an especially big help in front loader tasks, but it has also been praised in transportation and field tasks, as the driver no longer has to look down at the dials.

“The SmartGlass screen is positioned low enough so that it does not get in the way when it is not needed, while at the same time making it easier to see the information without taking your eyes off the task at hand,” says Finnish cattle farmer **Jarno Halinen**.

When performing front-loader tasks, SmartGlass can display information such as the load weight, bucket angle, bucket height and the combined weight of loads. When driving on the road, SmartGlass can

display the time, driving speed and outside temperature, for example.

When using the PTO to power an implement when the tractor is parked, the driver no longer has to climb up into the cab from time to time to view the instruments but can instead glance at the most important information through the door. SmartGlass also informs users when their mobile phones are connected to the tractor’s radio by Bluetooth. When starting the engine, it also displays tractor hours.

“I think SmartGlass is at its best in front-loader tasks and when using a loader scale. The display shows me how much dry manure I’ve loaded into the spreader and how much forage I’ve distributed, and when snowploughing, it lets me reset the angle of the plough after the snow has been ploughed off the road,” Halinen says. •

### 3070 CONNECT CUSTOMERS

Already over 3070 customers are using the Valtra Connect service and the number is growing all the time. Connect is particularly popular in Norway, while Finland is in a strong second place. Connect users can also be found throughout the rest of Europe and the world.

Valtra Connect is a remote tractor monitoring service that enables owners to check where their tractors are operating, what they are doing, how much fuel they have consumed and other information. Connect also enables authorised service technicians to monitor tractors remotely, helping them provide the best assistance as needed.

### NEW ORANGE COLOUR FROM THE UNLIMITED STUDIO

The Valtra Unlimited customisation studio now offers a stylish Burnt Orange colour that is suitable especially for municipal contracting in Central and Western Europe. The Burnt Orange colour is painted onto the tractor, so it can withstand high-pressure washing and hot water.

The yellow colour used widely at airports and for road maintenance in the Nordic region is also available from the Unlimited studio. In addition, it supplies airports with snow ploughs and warning lights that comply with safety regulations and do not interfere with air traffic.

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Valtra is a worldwide brand of AGCO

## VALTRA IMPRESSES AT LAMMA 2020

**R**eturning to the NEC in Birmingham for a 2nd year, LAMMA yet again attracted crowds of people from all over the farming community and with 11 sold out halls overflowing with the latest cutting-edge technology and machines, it's not hard to see why. The 2-day event, which took place on the 7th and 8th January once again welcomed over 40,000 people through the door.

Visitors to LAMMA 20 had the chance to view the complete range of Valtra tractors and cutting edge Smart Farming solutions, including the new design heads up display (HUD) SmartGlass.

Drawing in the crowds at the Valtra stand in Hall 9 was the special edition T234 Direct with Unlimited Studio options and a unique lightening ridge body colour wrap, which certainly caught the eye of many and created a real buzz. Additionally, with the growth in fruit farming and vineyards throughout the UK, the new F Series was on show for the very first time to the UK market and was well received.



New Valtra F Series on display in the UK for the first time.



From left to right: Jari Rautjärvi, Valtra EME with C J Cox's Stan Wyatt, Neil Warr, Dan Sparshot and Chris Cox and Valtra UK & Ireland's Gareth Jones and Alan Sanderson.

An exclusive dealer drinks reception was held on the stand on the Tuesday evening hosted by **Alan Sanderson**, Manager National Sales, Valtra UK & Ireland and the UK and Ireland Valtra team. The team were pleased to be joined at the event by **Jari Rautjärvi**, VP Managing Director Valtra EME, who presented UK dealer C.J Cox with an award for Valtra UK & Ireland Dealer of the Year 2019. C.J Cox were highly praised for their outstanding contribution and long-standing commitment to the brand. •

Unlimited T234 wrapped tractor lights up Hall 9.

Swiss Future Farm

# SMART FARMING

TEXT AURORE CHAUSSON PHOTOS SWISS FUTURE FARM



Each work order is first recorded by Florian Abt in the Farm Management Information System.

# MEETS REALITY

**T**he Swiss Future Farm is located on a farm site that has been managed under authentic conditions for many years. The life of the farm resembles a normal Thurgau farm in almost every way. Cows, goats and pigs are raised, and wheat, corn, oilseed rape and beet are cultivated. The changing seasons determine what work needs to be done.

But one thing is different here: all tasks employ the latest technologies available on the market. Smart Farming, Task Doc, Section Control or Variable Rate Control are not just trendy terms, but rather the living and tangible tools of modern agriculture. →



### Good preparation leads to more efficient work

All tasks and fields at the Swiss Future Farm are managed using a Farm Management Information System (FMIS). All the default farm data and empirical values collected over the years are stored in the system. This data forms the basis that the operations manager, **Florian Abt**, utilises when converting the tasks to be performed into digital work orders. In concrete terms, this means, for example, defining in advance where to plough and how much fertiliser to spread.

All plots of land are digitised to create field-related work orders. Information is stored about field boundaries, lanes, obstacles and headlands. Whether for tillage, seed preparation or forage harvesting, the system is able to define the most logical routes for the tractor. Although – or because – the Swiss Future Farm consists of many small and non-rectilinear fields, this

function is extremely valuable here.

While high tech is often associated with large farms and land areas, here you can see how technology can also be applied to small plots and how many turning manoeuvres can be avoided with well-prepared work orders. This is a matter of great interest for the small-scale landscape of Switzerland. Work orders for sowing or fertilising can be supplemented with application maps that contain additional information, such as subarea-specific application quantities.

### Driving becomes irrelevant

In the second step, work orders that have been prepared in the office are transferred to the respective tractors using TaskDoc. The transfer is simple and uncomplicated via a server, USB stick or Bluetooth. From then on, the different elements of Valtra smart farming come into play:

The task is transmitted to the driver via TaskDoc.



Sowing with Section Control and Variable Rate Control.



Precise plowing with Valtra Guide.



Tillage accurate to the centimetre accuracy.



Harvest on the Swiss Future Farm.



Motivated and keen to experiment.  
From left to right: Nils Zehner, Florian Abt and Marco Meier.

- ➔ Valtra Guide allows the operators to follow the routes defined in the work order very precisely.
- ➔ Variable Rate Control allows the application maps containing data about application quantities to be read on the tractor. This controls the machine and distributes the right quantity to the right place automatically.
- ➔ Section Control is used to enable or disable spraying, sowing and fertilising functions in different parts of a field, precisely as required in the work order. This effectively prevents overlaps, double treatments and gaps.

The Swiss Future Farm operators, who see their job as testing the various technologies, were pleasantly surprised by the ingenious interaction between the various systems.

“Given that operators and tractors can change, data networking not only brings simplicity and convenience in performing our work, but we also save a lot of time, fuel and resources,” explains **Raphael Bernet**, deputy operations manager.

The operators themselves have a huge weight lifted from their shoulders. They no longer need to worry about how they should tackle individual fields and can stay fully focused on the machine settings and their optimisation. Due to the easy-to-understand SmartTouch interface, operators can quickly master the system in all its details.

**Once the work is done, the work begins again**

After each work step and as soon as a work order has been completed, the data is sent back from the tractor to the FMIS via TaskDoc. Manual documentation is eliminated and the operations manager always has up-to-date data to hand that can be reused. Next year is definitely coming soon! •



Future Farm in Tänikon, Switzerland.

# Swiss Future Farm

The Swiss Future Farm in Tänikon in the Swiss canton of Thurgau is both a place and a project. The project is jointly sponsored by AGCO Corporation, the Swiss agricultural technology importer GVS Agrar AG and the Arenenberg Training and Consulting Center. Following their motto “Innovation arises from shared knowledge”, the three project partners set themselves the goal of making modern precision farming technologies visible, tangible and understandable. The team, headed by **Florian Abt**, **Marco Meier** and **Nils Zehner**, has been conducting field tests and collecting agricultural data for two years. Thanks to their unique experience in the smart farming sector, the team at the Swiss Future Farm are making an important contribution to consulting and training in agricultural engineering and software.

The Swiss Future Farm uses AGCO tractors, machines and prototypes from various suppliers. •

**The Valtra fleet at the Swiss Future Farm**

- ➔ A104 with front loader
- ➔ A94
- ➔ N174 Direct
- ➔ T174 Direct



# MAKING A DIFFERENCE

TEXT AND PHOTOS GEOFF ASHCROFT

**N174 Active with SkyView cab brings more productivity and efficiency to Chatsworth Forestry.**

**W**ith a team of eight, forestry manager **John Everitt** manages 1,700ha of woodland on the 14,100ha

Chatsworth Estate, in the picturesque Peak District region in Derbyshire.

Parkland and woodland areas also fall under his remit too, maintaining the high standards expected of the one million visitors passing through the gates each year.

Maintenance and management of woodland sees the forestry and arboricultural teams carry out a programme of sustainable cuts, producing 8,000 tonnes of timber each year. And in doing so, the team is undeniably proud of utilising 100% of all materials cut.

The lion's share of around 5,000 tonnes are derived from thinnings, while the remaining 3,000 tonnes comes from clear-felling.

"We produce a wide range of products for local customers and saw mills, including firewood, logs, planks, fencing materials and wood chip," he explains. "This is a fully sustainable operation, which sees woodland strategically managed – it's just like a farm's arable rotation, but this is done over a much longer period of time."

Brush material and what some would class as waste products, are also put to good use, for heating. Chatsworth operates two wood chip boilers, consuming a total of 1,800–2,000 tonnes of low-value



Forestry manager John Everitt and his team carry out a programme of sustainable cuts, producing 8,000 tonnes of timber each year.



Over the last 10 years, Chatsworth Estate has created over 100ha of new woodland.

timber and wood residues, each year.

As part of the regeneration process, the team replants 90,000–100,000 trees each year, ensuring the forests and woodland areas are kept in tip-top condition for hundreds of years to come.

“Over the last 10 years, we’ve created over 100ha of new woodland, and are starting to re-introduce more native species to the estate,” says John. “These include oak, ash, hazel, sweet chestnut and birch.”

“We’ve also introduced drone technology to improve accuracy and efficiency for mapping and 3D modelling of forests and woodland,” he says. “This helps with our longterm management and regeneration schemes.”

And the Chatsworth Forestry operation is becoming equally high-tech with tractors too, thanks to local dealer **B&B Tractors**.

On-the-ground mechanisation has been given a boost with a Valtra N174 complete with SkyView cab, reverse drive capability and forestry-spec guarding.

It is supported by a 30-year old

Valmet 665, used primarily for skidding.

“We use the Valtra mostly with a Botex XL Pro forwarding trailer, but it can also power a winch and a road brush,” he says. “The brush can be used on the front linkage, while the winch sits on the rear.”

“It’s a versatile and agile tractor that offers much more performance and productivity than the tractor it replaced,” explains John. “We’re used to reverse drive from our old Valtra T120, but the old six-cylinder was just tired, out-dated and quite bulky.”

“The new tractor is a huge leap forward, and the visibility is much better – the SkyView cab is amazing.”

With the Estate spread over a 25-mile radius, Chatsworth Forestry spends a lot of time on the road, and the hilly terrain needs plenty of power when hauling timber.

“Even though we’ve downsized to a four-cylinder engine, the N174 is a really impressive performer. It’s better on fuel, and has reduced journey times by half.” •



N174 carries out multiple roles, including timber forwarding, haulage, road sweeping and winching.



Reverse drive and SkyView cab add to the versatility of the N174 tractor.



Old meets new – N174 joins a 30-year old 665 at Chatsworth.

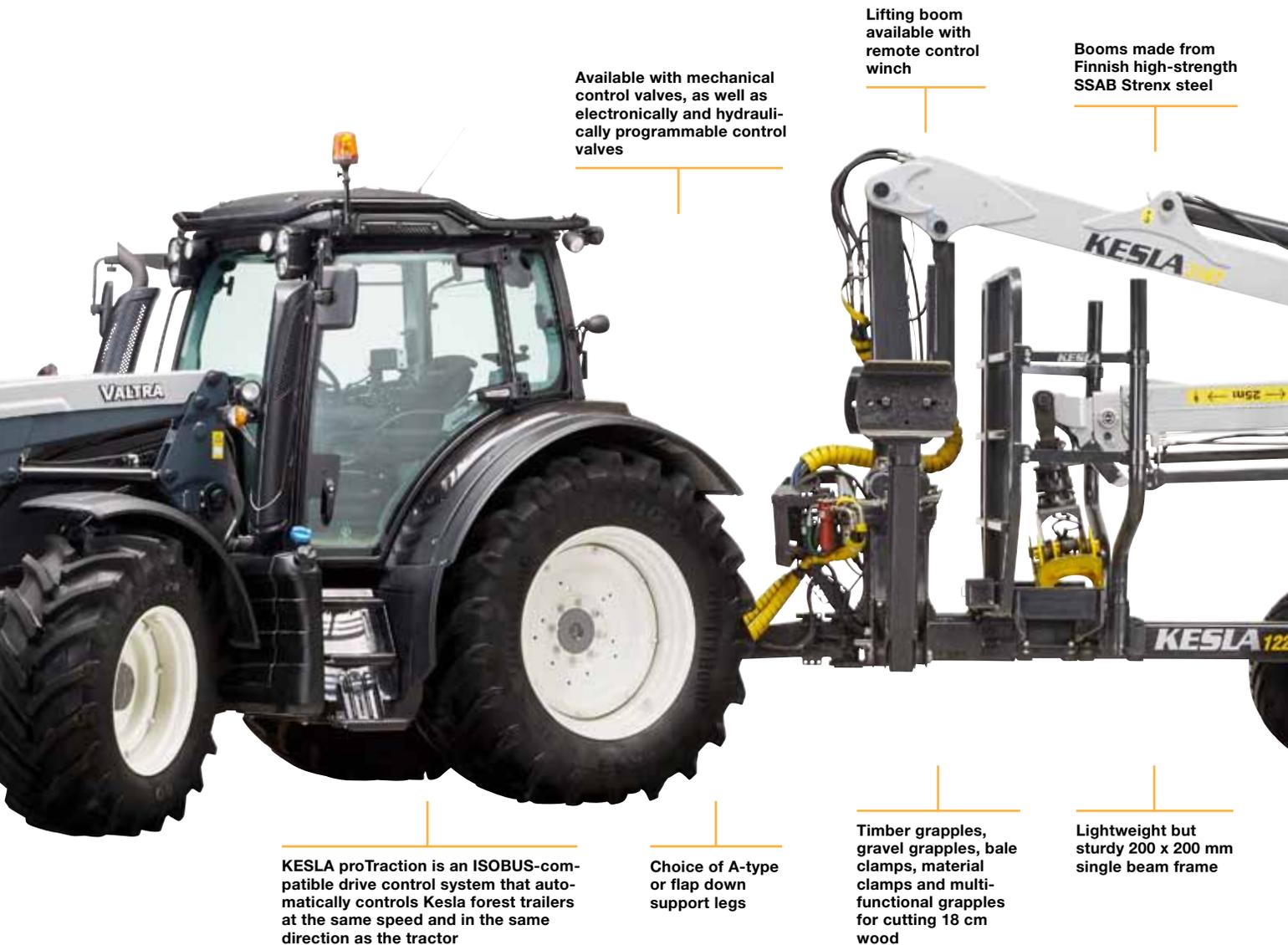
# TECH

Forest equipment can be used also in town and on the farm

## KESLA FOREST EQUIPMENT FOR VALTRA

Kesla forest equipment has been designed to be compatible with Valtra tractors, and it can also be fitted at the factory at the Valtra Unlimited customisation studio. In recent years, traditional timber trailer+loader combinations have found their way to farms and urban areas. For example, Kesla trailers and loaders are used for loading, transporting, landscaping and park maintenance. On farms, Kesla cranes are used for feeding cattle and spreading bedding, as well as for lifting bales.

TEXT TOMMI PITENIUS PHOTOS VALTRA ARCHIVE



Available with mechanical control valves, as well as electronically and hydraulically programmable control valves

Lifting boom available with remote control winch

Booms made from Finnish high-strength SSAB Strenx steel

KESLA proTraction is an ISOBUS-compatible drive control system that automatically controls Kesla forest trailers at the same speed and in the same direction as the tractor

Choice of A-type or flap down support legs

Timber grapples, gravel grapples, bale clamps, material clamps and multi-functional grapples for cutting 18 cm wood

Lightweight but sturdy 200 x 200 mm single beam frame

"Traction is a must for forest trailer in the woods."

# VALTRA TRACTORS

## Kesla Oyj – Finnish listed company

- Annual net sales of EUR 47.4 million
- 250 employees
- Manufactures forest trailers, forest loaders, truck and stationary cranes, harvester heads, grapples and chippers
- 70% of production exported
- PATU timber loaders rebranded as Kesla loaders in 2006
- Founded in 1960

Boom reach  
in excess  
of 10 metres

A biomass box is  
available on most  
forest trailers  
for transporting  
brushwood



Available with  
hydraulic Robson  
drive or wheel  
motors

Disc or drum brakes  
with negative hand-  
brake

## Forest contractors appreciate pulling power of trailers with hydraulic drive

The main equipment used by forest contractor Metsätyö Juha Mönkkönen in Vehmersalmi, Finland, is a Valtra N174 Direct tractor that is used to pull a KESLA 122ND 2 WD trailer and 316T loader.

Metsätyö Juha Mönkkönen has provided property and forest maintenance services for twenty years. The company employs on average three people in addition to the entrepreneur himself. Forest maintenance tasks include tree felling, stump grinding and brushwood clearance, as well as transporting timber to collection sites.

### Focus on the trailer

Juha Mönkkönen chose a loader-trailer combination because it suited his needs better than a loader fitted directly to the tractor. In particular, the pulling power of the trailer was a big benefit. The trailer he chose was a KESLA 122ND 2 WD, which has a capacity of 12 tonnes and hydraulic nave drive on the rear axle.

"The forest trailer I purchased has an extendable load area. Extending the load area is quick, and the double posts in the last bunk increase stability," Mönkkönen says.

"The traction is a must for forestry work, but its importance in municipal work shouldn't be underestimated, especially when working in slippery places and on difficult surfaces. The hydraulic drive also allows the use of tyre chains, a must for safety in winter conditions."

According to Mönkkönen, the tractor-trailer combination with drive and tyre chains is approximately as effective as a dedicated forestry forwarder.

### A loader suitable for professionals

The KESLA 316T is a loader designed for professional use. Mönkkönen used to drive a logging truck, so the cranes on big trucks are very familiar to him. According to Mönkkönen, the 316T compares favourably with those truck cranes.

"The loader can handle incredible loads. The boom's proportions are good, the crane is agile, and it can be used in confined spaces. The lifting force is smooth, and sufficient outreach is always available."

The control valve on Mönkkönen's crane is the Walvoil DPX and the control system is Kesla's own proC.

Mönkkönen already had a high opinion about Kesla products, having heard a lot of good feedback about them when driving logging trucks.

"The quality can be seen just by glancing at the structures," says Mönkkönen •

Juha Mönkkönen and Mika Ahonen from AGCO Finland's Kuopio sales point were very much on the same wavelength when specifying the loader-trailer combination.





Service technicians from Norway attending a training course at Valtra's new training centre in Hirvaskangas. Maintaining the professional skills of service technicians is one of the key tasks of Valtra aftersales operations.

## Maintenance services locally and digitally

# TRACTOR OWNERSHIP SHOULD BE EASY AND CAREFREE

TEXT AND PHOTOS TOMMI PITENIUS

Valtra's aftersales organisation seeks to make tractor ownership as easy and carefree as possible. This is achieved when both the factory and dealers work together for the good of the customer. The collaboration between sales, service and spare parts is equally important. Sometimes accidents happen when working with tractors, and when they do, the most important thing is to get the wheels rolling again as fast as possible.

"We look after the skills of our technicians and the availability of spare parts. Technicians are trained according to Valtra's training programme at our new training centre, where hundreds of service managers and technicians are trained each year," says **Jani Rautiainen**, Director, Parts and Service, Valtra EAME.

Valtra's spare parts services are based on its central warehouses in Suolahti, Finland, and Ennery, France, in addition to which there are also numerous regional warehouses in different countries. The local inventory at each sales point is optimised according to the types of tractor models, tasks and seasons in each region to ensure that the majority of customers can get the parts they need immediately over the counter. These inventories do not have to be particularly large as long as the spare parts that are needed most are kept in stock.

### Service and maintenance included in R&D

Aftersales operations involve much more than just spare parts and maintenance. For example, service technicians participate in the

engineering of new tractors and make sure that the new products are even more reliable and easier to maintain. It is also important to continuously develop Valtra's services.

"With our Connect, Care and Go services we want to make tractor ownership easier and more carefree, as well as to make costs more predictable," says Rautiainen.

Valtra Connect remote monitoring enables local service technicians to connect to the tractor remotely. Valtra Care in turn makes it easy to anticipate tractor costs for up to five years or 6000 hours at a time. Valtra Go goes one step further, covering all scheduled maintenance. These service packages make it possible to plan tractor costs precisely and keep tractors in optimal condition at all times.

Valtra Connect enables customers to monitor data from their own tractors. In addition, depending on the country, Valtra has customer portals, newsletters and social media channels that enable it to maintain contact between customers, dealers and the factory. This customer magazine, Valtra Team, is another form of communication that is available in both online and printed formats. •

Recent business expansion has enhanced sales, service and workshop infrastructure for the Sturminster Newton, Dorset based Valtra dealer.

# BUILDING THE BRAND

TEXT AND PHOTOS GEOFF ASHCROFT

**H**aving been awarded UK and Ireland Dealer of the Year for 2019, Dorset Valtra dealer **CJ Cox** is big on customer service. It's why the firm enjoys repeat business with long-standing customers, and continues to chip away at other tractor makes in the area, replacing them with the venerable Finnish brand.

"We've always stuck to one tractor brand," explains sales manager **Martin Spicer**, who started with the firm as a Saturday helper around 24 years ago.

"A single tractor brand gives us focus, and avoids muddying the waters when it comes to sales."

The business was started by **Chris Cox** in 1982, before adding the Valtra brand in the early 1990s. Since then, the firm has evolved and continues to grow, adding complimentary grassland and arable brands into the mix, to meet the needs of local farmers.

"When Valtra's T4 Series arrived, we all agreed that if we couldn't sell it, we may as well close the gates," he recalls.

"It's proving an incredible tractor range, and the subsequent arrival of SmartTouch has made it the best on the market."

A team of 10 mobile technicians compliment office staff, the sales team, plus parts and service personnel. And while Chris remains the boss, he's not your average gaffer.

"Chris can often be found in his overalls, somewhere in the workshop, with oily hands – doing what he loves," says Martin.

"He trusts the rest of the team to deliver in those areas that they know well, and actively encourages anyone in the business to enjoy continuous professional development."

"It's a process that has helped to make the business what it is today – and receiving the Dealer of the Year Award is further proof of that." •



Prestigious award reinforces CJ Cox's commitment to customer service.



The Valtra T254 Active is waterproof up to one metre and can manage waves up to 1.4 metres.

## Valtra tractors serve Denmark's Search and Rescue operations

# N154 WITH MARITIME RADAR ON THE ROOF

**D**enmark has 8750 kilometres of coastline. Vesterhavet, the North Sea in English, stretches from the border with Germany all the way up to the top of Denmark and is incredibly popular with its beautiful beaches and traditional fishing boats. It is also home to Denmark's Search and Rescue (SAR) operations under the Danish Defence Forces.

In 2019, the Danish Defence Forces took delivery of four specially designed Valtra tractors for four different locations: a small island called Fanø, the two fishing villages of Vorupør and Thorup Strand, and the base of the Arctic Commando in Mestersvig, Greenland. All four of the Valtra tractors were modified to suit the needs of the different locations.

Valtra Denmark won a tender in 2019 for delivery of four tractors to the Danish Defence Forces. Three of the tractors will serve its Search and Rescue (SAR) operations in Jutland, Denmark, while the last was shipped to Greenland as part of the Arctic Commando.

TEXT SOFIE KAROLINE HØGEDAL PHOTOS ARNE SPEJLBORG AND LAILA THEILL

### Maritime radar and infrared camera on a N154 Active

On the small island of Fanø, a white Valtra N154 Active with red stripes down the sides and the fuel-saving EcoPower feature is the new SAR vehicle.

"We had a maritime radar installed that can localise ships in the area around the island. Our new Valtra also has an infrared heatseeking camera to locate missing humans, animals or

vessels. On top of the tractor, there is a search spotlight that can light up the night," says **Michael Enok**. A Senior Sergeant in the Danish Ministry of Defence Acquisition and Logistics Organisation, Enok is overseeing the design of the Valtra tractors.

"The Valtra at Fanø is the most unique tractor we have. The island does not make it possible for any other type of rescue vessel than a tractor, both because of the size of

the island and because SAR has a lot of rescues and call outs during the year. We have always had a SAR tractor on Fanø, but our old one could not perform the same tasks as the new one can,” Enok explains.

The island Fanø is located on the southwest coast, called Vadehavet in Danish, which roughly translates to “The Wadden Sea”. It is known for the low water level, which makes it possible for a tractor to navigate in the sea.

“Even though the tractor has high ground clearance, the manufacturer has further ensured that it can rive in water up to one metre deep without taking in water. For example, Valtra provided customised waterproofing to seal everything within one metre. The tractor is therefore both waterproof and can endure the saltwater for a longer period of time,” Senior Sergeant Michael Enok says.

### **T254 Active drives SAR boats into and out of the water**

In the two fishing villages of Thorup Strand and Vorupør, fishing boats are dragged into the sea from the beach and up onto the beach using a tractor. They are the only two places in Denmark where the beach serves as the harbour, and at both locations the Danish Defence Forces operate an SAR service using their own tractor to drive the SAR boat into and out of the water. This is an extremely heavy task, so two strong



“The Danish Defence Forces required new tractors for demanding coastal operations”, says Senior Sergeant Michael Enok.



The Valtra N154 is a multipurpose machine that can be fitted with a wide range of tools, including a maritime radar, an infrared heatseeking camera and a search spotlight.

Valtra tractors were needed. They received two T254 Actives.

“We chose this model because of the combination of weight and horsepower. Our minimum requirement is 250 horsepower, and a tractor like the Valtra T254A with all its modern technology was perfect for the heavy tasks at hand and still be stable in the loose sand, which is extremely difficult to navigate with other vehicles,” Enok says.

Both Valtra T254s are waterproof up to one metre and can manage waves up to 1.4 metres.

“Besides being waterproofed, the tractors are mounted with search lights, which we use when operating at night. In addition, the tractors are fitted with a massive backplate to protect the tractor against strong waves from the rear. The mounting of the backplate required a great deal of planning and precision from the manufacturer.”

### **Valtra chosen because of price and quality**

Senior Sergeant Michael Enok points out that the Danish Defence Forces did not seek out a particular brand when choosing the supplier of the four new tractors. Instead, they looked at the price and quality of the product.

“We requested offers from different suppliers. When we chose Valtra, it was because it matched our price range and had the quality we were

looking for. Moreover, AGCO Denmark A/S had some very good considerations in their offer,” Enok says.

### **Valtra works well in the climate of Greenland**

The climate in Greenland is much like in Finland, where Valtra originates from. Because of this, Valtra tractors have an advantage in the harsh weather up north. In Mestersvig, Greenland, the Danish Defence Forces operate a station called the Arctic Commando that received a brand-new red Valtra N154 EcoPower Advance in August 2019.

“The Valtra will work as a multipurpose machine, because we needed a combination of many machines to dig, lift and pull things in Mestersvig. A tractor can do all this, making it the perfect choice when we were looking for a new machine,” Senior Sergeant Michael Enok says.

Even though most of the year Greenland is covered in snow, the Valtra N154 Active will not clear snow.

“We need the tractor to pull a wagon most of the time, so the Valtra is fitted with winter tyres and it has a winter package with an extra cab heater and electrically heated windows,” Enok says.

Because Mestersvig is so remote, the technical team from the station has been trained in Denmark so they are able to repair the tractor on site should anything happen. •



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# VALMET 702S

Valtra's current model series are the F, A, N, T and S. The biggest of these is the S Series. Today's S Series represents the third generation of the model series produced by Valtra and its predecessor Valmet. The first S Series models were manufactured already 45 years ago in Suolahti, Finland, with the introduction of the Valmet 702S. The next generation of the S Series was manufactured again in Suolahti in the 2000s, and since then the S Series has been the most powerful Valtra model series. The third generation of the S Series was introduced in 2009 and is built in France as a joint project with AGCO.

In 1971, the 02 Series was introduced, and its first model was the Valmet 502. The bigger Valmet 702 was launched the following year, and in 1973 came the even bigger Valmet 1102.

The Valmet 02 Series is remembered for its much-improved driver conditions. The cab floor was made flat, as the gear levers were moved to the right side. Noise levels inside the cab were the lowest on

the market. It is no wonder, then, that 02 Series tractors were popular, especially in its home market in Finland.

An important new product launch in the 02 Series was the Valmet 702S, which further strengthened the product range in 1975. The turbocharged four-cylinder engine produced 102 horsepower (SAE). There was clearly a demand for a tractor in this size category, and the S Series was warmly welcomed by the markets. Its economy and power in particular were widely praised.

Turbocharged engines began to grow in popularity towards the end of the 1970s, also in four-cylinder

The 702S can be identified by its higher engine cover to accommodate the turbocharger. Four-wheel-drive expanded the range of tasks, even if it increased the turning radius.

According to a test report by Vakola (State Agricultural Machinery Research Institute) in 1978, the Valmet 702S offered good performance with its standard equipment.

**The SAE measurement standard indicates engine power without accessories and was used in the early 1970s.**

**DIN indicates engine power from the flywheel with accessories.**

tractors. Valmet was a forerunner in turbocharging, especially in its three- and four-cylinder engines. The popularity of turbos was due to their fuel efficiency during the energy crisis of the 1970s, when the price of fuel multiplied in just a few years. In retrospect, it can be said that this Valmet innovation also came at the right time.

When four-wheel-drive was introduced to all four-cylinder Valmet tractors at the end of the 1970s, the company could offer tractors for all needs. The model series were updated again in 1979, when the tractors gained a slightly brighter yellow paint job and the S Series became the Valmet 903. •

## 02 Series tractors

Model	Engine	Transmission	Launched
502	2,7 l / 3 cylinder / 54 hp (SAE)	6 + 2R	1971
702	4,2 l / 4 cylinder / 75 hp (SAE)	8 + 2R	1972
1102	4,2 l / 4 cylinder turbo / 115 hp (SAE)	8 + 2R	1973
702S	4,2 l / 4 cylinder turbo / 102 hp (SAE)	8 + 2R	1975
602	3,3 l / 3 cylinder / 58 hp (DIN)	6 + 2R	1978

# A PASSION FOR FARMING

TEXT AND PHOTOS GEOFF ASHCROFT

**W**ith two main tractors on the 310ha family farm, **Naomi McKie** and her father, **Richard Bugg**, place versatility and productivity high on their agenda.

“Our largest tractor is 200hp which suits cultivations and drilling, where our smaller tractor has to step-up around buildings, as well as supporting fieldwork,” explains Naomi McKie.

That smaller tractor is now a four-cylinder Valtra N134 Active supplied by local dealer **CJ Cox**, and equipped with G6 loader, replacing a lesser-powered six-cylinder tractor.

“I was lucky enough to see my tractor going down the production line last year,” she recalls.

“It’s proving very comfortable to use, and has some neat touches too. The loader is easy to remove and refit, and it packs good hydraulic power for handling duties.”

From Littleton Farm, Blandford Forum, Dorset, Naomi and her

father grow 280ha of combinable crops including wheat, barley and oilseed rape. The remainder is a mix of traditional grass and newly introduced herbal leys to cater for a growing herd of 100 store cattle and breeding cows that add value to their arable farming practices.

With 400 hours now under its belt, Naomi reckons the tractor has made life easier and more comfortable.

“A short wheelbase makes the Valtra extremely manoeuvrable in and around our buildings, and there’s plenty of power for field work and hauling grain trailers at harvest,” she says.

“The Valtra is in use every day, feeding and bedding our livestock. It offers great visibility and we all like the five-post cab which lets us open a small side window for fresh air.”

“It’s certainly improved the way we farm, and we would consider another one when the time comes to swap our larger tractor.” •



Compact but powerful, the N134 is equally capable around buildings as it is with field work.





Naomi McKie is driving diversity at the 310ha family farm.



Olaf Tufte participated in his first Olympic Games at the age of 20. With more than 200 travel days a year, he enjoys coming home and getting back in his Valtra to relax. Here he is with his dog Sera.



Olaf Tufte drives Valtra tractors because they are versatile, simple to use and durable.

## TALKING ABOUT SISU, NORWEGIAN STYLE

Olympic medallist in rowing, clothes entrepreneur, event maker, public speaker and farmer Olaf Tufte has driven a tractor since childhood. He relishes coming home and just getting into his tractor again after all the travelling.

TEXT AND PHOTOS LARS OVLIN

“I drove a Volvo BM 400 as a kid. When I was around 16 or 17 I got the keys to the farm’s International 574 as a Christmas present from my father, **Sigurd Olaf**. He just dropped the keys in my hands. I remember I had just started rowing seriously,” **Olaf Tufte** recalls.

The 44-year-old Norwegian made his Olympic debut in Atlanta in 1996. Since then, he has won four Olympic medals and six World Cup medals, including several gold medals.

“The biggest motivation is that it is fun and in constant development. With 220 travel days and 1000 to 1200 training hours each year, there are long periods with little sleep. That makes training camp seem like a holiday,” he laughs.

### Over 20 years of Valmet/Valtra ownership

In addition to being one of the best rowers in the world, Tufte produces grain and firewood at the Tufte farm in Nykirke outside Horten in Norway with his wife and two children. On the family farm they have a Valtra A93 and a Valtra N154.

“Our first Valtra was a Valmet 6300, which we bought more than 20 years ago. I still drive Valtra tractors because they are versatile, simple to use and durable,” Tufte confirms.

Tufte has established a large event company and his own clothing brand, and he is also a public speaker. In 2008 he established Team Tufte with the national rowing association to support young athletes, and in 2014 he won a celebrity version of the TV show «71° Nord».

“It’s always nice to come home, get in the Valtra, turn off the mobile and just drive the tractor. It doesn’t matter if it’s loading firewood or working in the fields.”

The farmhouse hosts everything from weddings to Tufte team building events.

“We transport a lot of hurdles, and I still like to use my body, but my father likes to use the Valtra. The exercises include everything from simple things to tough challenges, including backing up the tractor with a trailer attached. Service is important to me because of my busy schedule. **Roar Enerhaugen** and the others at our dealer are fantastic, and their customer service has been superb for all the years that we have driven a Valtra,” says Olaf Tufte. •

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**Valtra** Models



  
MACHINE  
OF THE YEAR 2019

**A SERIES**

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



**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



**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



**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



**F SERIES**

MODEL	MAX. HP*
F75	75
F85	85
F95	95
F105	105

\*ISO 14396