

AVANT[®] MAGAZINE

AVANT TECNO CUSTOMER MAGAZINE 2/2016

New e series Avant goes full electric

p. 4

25
YEARS

Asphalt patching with Avant p. 18

From a tough to a product: 3D printing p. 16



AVANT ORIGINAL PARTS

LED lights

- LED work light
- on ROPS frame
 - product no 66068
- LED work light
- on front cover
 - can replace the original halogen light
 - Product no 66266



- LED work light kit
- 2 front, 1 rear
 - includes all necessary fitting parts
 - 700 lumen
 - Product no A33916

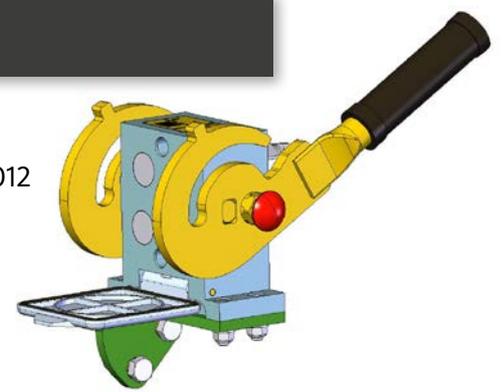
Telescopic boom service kit

- Compatibility: R series, 400 series, 500 series starting from 2008, 600 series, 745 and 750 until the year 2011
- Includes all the pivot pins, bearing and slide pieces needed for the service of the boom
- Product no A419462



Multi connector A34366

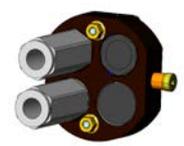
- New generation hydraulic connector available for old Avant loaders!
- Can be mounted to Avant 300–700 loaders manufactured 1998–2012
 - Very easy to operate: all hydraulic connections by one handle
 - Three different connector models for attachment side
 - Standard on 300–700 -series Avant loaders since 2012



Multi connector attachment side:



65250
3 connections,
pressure line, return
line and tank line



65251
2 connections,
pressure line and
return line



65371
2 connections,
pressure line and
tank line

For more details, contact your dealer!

Editorial

As the year is closing to an end it is time for a short recap

2016 has been a year full of technological breakthroughs for Avant. We have launched the full electric e series. With this innovation Avant is the first to introduce the lithium ion battery technology to the loader market. In addition to this we have invested heavily into 3D printing and are now partners in a company that has the biggest 3D metal printer in the Nordic countries. It gives our R&D department a possibility to produce prototypes and do quick-paced small series production. It also allows us to create new kinds of products that cannot be produced with traditional methods. You can read more about both of these technological advances in the pages of this magazine.

This year has been full of big exhibitions. First there was the construction machinery show Bauma in Munich in April. It was followed by the landscaping exhibition GaLaBau in Nuremberg in September and finally also the agricultural show EuroTier in Hannover in November. Together there were almost one million visitors at these three exhibitions! They have been big investments to marketing, but we had interesting new products to show and we had a record amount of visitors in our stands during all of these exhibitions. All of these exhibitions also grew compared to the previous year, which shows that these mega exhibitions remain interesting for visitors: you are able to see the full spectrum of what is available in the industry in one visit.

Avant is now a 25-year-old company. To mark this milestone we held a party in the beautiful Finnish summer landscape in early July. There has most certainly been a lot of phases, stories, products and people that we have gotten to know during these 25 years for which we are very grateful here at Avant. The party was very meaningful for me personally as I have grown with the company all of these 25 years. I still know many people who have worked with us and for us from the early days. It was a pleasure to see many of them join us at the celebration. I can honestly say that I am excited to see what the future holds and at the same time realise that we have to be the ones who create our future, because the world will definitely look very different 25 years from now.

Wishing you a good new year

*Jani Käkälä
Executive Vice President
Sales & Marketing
Avant Tecno Oy*

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AVANT

Ylötie 1, 33470 Ylöjärvi, Finland

P. +358 3 347 8800

E-mail: sales@avanttecno.com

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**25
YEARS**

Avant once again at the forefront of development

full

- 100% battery powered electric loaders
- Zero emission
- Extremely low noise
- Around 1400–1600 kg operating weight
- Tipping load 950 kg
- Auxiliary hydraulics 30 l/min

Avant e series is a new electric loader



The Avant electric loader is the result of a long development process. For the first time the idea was taken up to a product in 1997, when the first full electric Avant loader was introduced. Technology was not advanced enough at the time and the project was discontinued soon after it started. The next time the electric loader was on the table of product development in 2009, however the production costs were still too high for the project to be taken forward. Since then the technology of the loaders and also different battery solutions have evolved considerably so that in 2015 we moved from planning to implementation, and Avant e5 and Avant e6 were born.

AVANT[®] e5 AVANT[®] e6



The full electric Avant e-series is the answer to customers' wishes, as well as to future emission standards. A battery powered loader is especially suitable for indoor use where ventilation is limited or non-existent. It can work at full power without emissions, and the operator and workers are not exposed to the exhaust emissions which create health risks. A further benefit of a battery driven machine is the extremely low noise level. This offers the possibility to work also in noise restricted areas or where minimum interference caused by worksite noise is a plus.

Customers benefiting the most from a battery powered loader are horse stables, demolition and construction contractors, farms and agriculture in general as well as some industrial applications. In these applications the loader is often operated indoors where zero emissions are extremely important, because combustion engine emissions can cause health issues for the operator, co-workers and animals. Thanks to its compact dimensions Avant can work in restricted areas and the wide range of attachments makes Avant a multi-purpose machine on





the construction or work site. It lifts, transports, loads, demolishes and sweeps – quickly and efficiently.

The new e series features two models: Avant e5 and Avant e6. The quick attach system as well as the multi connector for the attachment hydraulics are the same as in other Avant models, so the large attachment range is suitable also to the e series. The loader has an integrated battery charger, which makes it possible to charge batteries anywhere a 230 volt/16A power outlet is available. The e series can also be operated while charging the batteries.



- Lead acid battery technology
- 240 Ah battery capacity
- Onboard charging unit included



Avant e5 is a full electric loader, equipped with a lead acid battery unit. The e5 offers good value for money with conventional battery technology. The type which can also be found on most electric forklifts. It offers zero emission, extremely low noise and low running costs. The e5 has approximately the same technical capabilities as an Avant 500 series and it can run many Avant attachments.

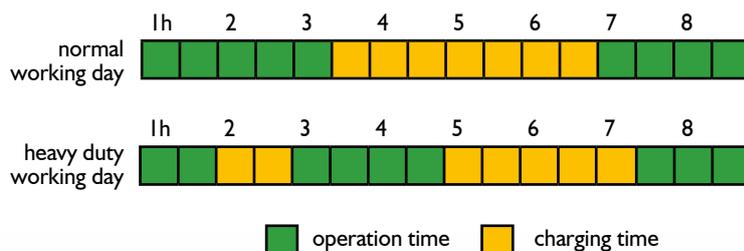
From the technical side the e5 is equipped with a 240Ah lead acid battery. It is equipped with two electric motors: a 6kW motor for driving the machine and a 2kW motor for loader boom operation and auxiliary hydraulics. An onboard charging unit is included in the machine, which enables charging from any 230V/10A power outlet. Avant e5 has 30 l/min auxiliary hydraulics flow, which allows working with various Avant attachments, including hydraulic hammer and various grapples.

The operation time of the Avant e5 varies highly depending on the type of work it is performing. The charging time of the battery pack to 100% battery capacity is approximately 5 hours; to 80% battery capacity approximately 3 hours.

	AVANT e5
Length	2 550 mm
Width	1 130 mm
Height	1 985 mm
Weight, starting from	1 600 kg
Standard tires	23 x 10.50-12" grass/TR
Transmission	hydrostatic
Drive speed	10 km/h
Auxiliary hydraulics	30 l/min
Turning radius (inside/ outside)	995 / 2 050 mm
Lifting height	2 790 mm
Tipping load	900 kg
Battery type	lead-acid
Energy	11,5 kW
Fuel	electric



Operation time of the Avant e5 in different applications:





Avant e6 is the first loader in the world using lithium battery technology. Its advanced lithium battery system derives from research Avant has done together with Valmet Automotive. Valmet Automotive has extensive experience in battery systems design and manufacturing projects in the automotive industry and machinery.

Avant e6 is equipped with a 288 Ah lithium battery. It is equipped with two electric motors: a 6kW motor for driving the machine and a 2kW motor for loader boom operation and auxiliary hydraulics. An onboard charging unit is included in the machine, which enables charging from any 230V/10A power outlet. Auxiliary hydraulics flow is 30 l/min, which allows working with various Avant attachments, including hydraulic hammer and various grapples.

Lithium-ion battery technology provides significantly better performance compared with lead-acid batteries. In light use lithium battery performance is ca. 30 per cent better than lead-acid battery. In heavy use the operating time is up to three times longer than the operating time of a lead-acid battery. An even more significant feature of the lithium battery is that it can be charged quickly. The battery pack of Avant e6 can be recharged from 0 to 100% in one hour when using a rapid charging station. This enables charging of the battery during the lunch break. A lithium battery pack is 30 per cent lighter than a lead-acid battery and it gives the opportunity to control the loader payload according to intended use. A lower ground pressure is also achieved with a lighter machine, which is useful for example while working on construction sites on floors and roofs where the weight is relevant.

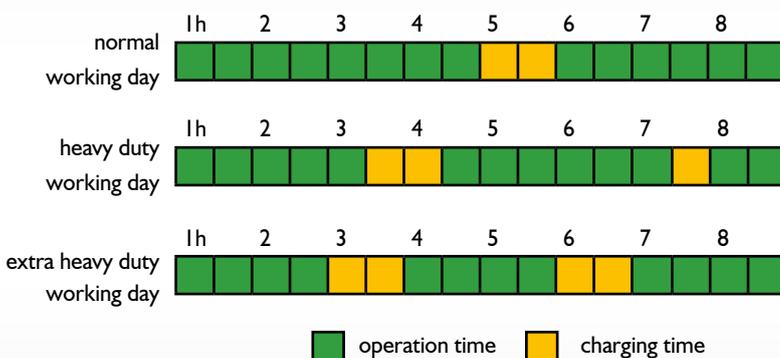
The operation time of the Avant e6 varies highly depending on the type of work it is performing. The charging time of the battery pack to 100% battery capacity is approximately one hour when using a rapid charging station.

- Li-ion battery technology
- 288 Ah battery capacity
- 48 V battery voltage
- On board charging unit included
- Rapid charging possible



	AVANT e6
Length	2 550 mm
Width	1 130 mm
Height	1 985 mm
Weight, starting from	1 400 kg
Standard tires	23 x 10.50-12" grass/TR
Transmission	hydrostatic
Drive speed	10 km/h
Auxiliary hydraulics	30 l/min
Turning radius (inside/outside)	995 / 2 050 mm
Lifting height	2 790 mm
Tipping load	900 kg
Battery type	lithium-ion
Energy	13,8 kWh
Fuel	electric

Operation time of the Avant e6 in different applications:



NEW ATTACHMENTS

Dozer blade 2000



Equipped with hydraulic blade turning, Avant dozer blade is the ideal tool for snow removal, earthmoving and similar jobs where the materials must be dozed away quickly.

Dozer blade 2000 features a completely new design. The blade is higher and more curved than earlier and moves material more efficiently to the side. Hydraulic slewing, spring release and skid shoes are standard equipment like before. So are the turnable 2x310 mm extensions which can be mounted in straight or collecting position.

The completely new floating system allows the blade to float vertically, which makes working on uneven surfaces considerably easier and more efficient. The blade can also float sideways $\pm 10^\circ$. The floating system can be adjusted manually in three different positions:

1. Free floating – both vertically and sideways
2. Sideways floating $\pm 10^\circ$ only, without vertical floating (same system as on the earlier 2000 and 2500 mm dozer blades, and still on the 1400 mm model)
3. Rigid position – both vertical and sideways floating locked with bolts

Product no	Blade width	Blade height	Slewing angle	Weight
A36123	1390 mm main blade + 2 x 310 mm bolt-on extensions	590 mm	$\pm 30^\circ$	215 kg

Model	220	225	313S	320S	320S+	419	420	520	525LPG	528	R20	R28	R35	630	635	640	745	750	760i	
Dozer blade 2000																				

Dozer blade 2500

Equipped with hydraulic blade turning, Avant dozer blade is the ideal tool for snow removal, earthmoving and similar jobs where the materials must be dozed away quickly. Dozer blade 2500 features a completely new design. The blade is higher and more curved than earlier and moves material more efficiently to the side. Hydraulic slewing, spring release and skid shoes are standard equipment like before. So are the turnable 2x310 mm extensions which can be mounted in straight or collecting position.

The completely new floating system allows the blade to float vertically, which makes working on uneven surfaces considerably easier and more efficient. The blade can also float sideways $\pm 10^\circ$. The floating system can be adjusted manually in three different positions:

1. Free floating – both vertically and sideways
2. Sideways floating $\pm 10^\circ$ only, without vertical floating (same system as on the earlier 2000 and 2500 mm dozer blades, and still on the 1400 mm model)
3. Rigid position – both vertical and sideways floating locked with bolts

- Two solid skid shoes which reduce blade wear and improve maneuverability
- Robust construction, with spring release mechanism designed for professional use
- Recommended for professional snow removal on larger areas
- Turnable 2 x 310 mm extensions as standard, can be mounted in collection position or straight
- Support wheels, instead of skid shoes, available as an option - keep working height more constant when working on sensitive surfaces

Product no	Blade width	Blade height	Slewing angle	Weight
A36251	1840 mm main blade + 2 x 310 mm bolt-on extensions	590 mm	$\pm 30^\circ$	232 kg

Model	220	225	313S	320S	320S+	419	420	520	525LPG	528	R20	R28	R35	630	635	640	745	750	760i	
Dozer blade 2500																				

- Two solid skid shoes which reduce blade wear and improve maneuverability
- Robust construction and higher blade than on 1400 mm dozer blade for more efficient dozing
- Versatile dozer blade, efficient on larger areas but still compact enough for tight situations as well
- Turnable 2 x 310 mm extensions as standard, can be mounted in collection position or straight
- Support wheels, instead of skid shoes, available as an option – keep working height more constant when working on sensitive surfaces

Options:

- A417437** Ice cutting edges, kit, for main blade and extensions
- A417441** Rubber edges, kit, for main blade and extensions
- A417345** Support wheels, 2 pcs

Options:

- A417729** Ice cutting edges, kit, for main blade and extensions
- A417672** Rubber edges, kit, for main blade and extensions
- A417345** Support wheels, 2 pcs



Snow plow



The Avant snow plow is a versatile attachment for snow removal. It consists of two independently hydraulically adjustable blades. Angle of the blades can be adjusted with a switch from the driver's seat. Both blades have a

spring release mechanism in the lower part of the blade to prevent any sudden stop should the blade hit an obstacle. The floating mechanism on the mounting bracket guarantees that the blade follows the ground as well as possible.

The new V1800 and V2400 snow plows feature:

- New vertical floating system (better than old quadrangular floating system)
 - Significantly more curved blade – moves snow more efficiently to the side
 - Support legs with skid shoes as standard
 - Curved flat cutting edge with standard 305 mm hole distance; made of high tensile, abrasion resistant wear steel
- Versatile snow removal tool for professional use
 - Two independently controllable blades: can be adjusted in straight, V or Y position
 - Advanced floating system allows working on uneven surfaces as well

Options:

- A36817** Ice scraper edges, kit, snow plow V1800
- A36818** Ice scraper edges, kit, snow plow V2400
- A37173** Rubber edges, kit, snow plow V1800
- A37171** Rubber edges, kit, snow plow V2400

Model	V1800	V2400
Product no	A36795	A36796
Blade width	1510–1840 mm	2020–2450 mm
Total width (with curved end flat edge/ice scraper blade)	1570–1900 mm	2080–2510 mm
Blade height	770 mm	770 mm
Blade turning angle	+/- 35°	+/- 35°
Weight	330 kg	390 kg

Requires an attachment control switch pack on the loader

Model	220	225	313S	320S	320S+	419	420	520	525LPG	528	R20	R28	R35	630	635	640	745	750	760i
1800																			
2400																			

NEW ATTACHMENTS

Light material bucket

Light material buckets are intended for handling snow, saw dust, manure, wood chips and other light materials. The bottom of a light material bucket is considerably longer and the sides are higher than on a general bucket, which speeds up the work a lot. There are no reinforcement plates inside the bucket which would interfere when loading and emptying, and the sides open forward in a slight angle which guarantees easy and complete emptying of all kinds materials.

- Fast and easy moving of light materials
- Excellent visibility to the edge of the bucket
- No reinforcement plates inside the bucket – easy filling and emptying
- High back of the bucket prevents material from falling over the rear edge and guarantees high volume
- Strong cutting edge made of high tensile, abrasion resistant wear steel



Product no	Width	Volume	Weight
A36715	1150 mm	430 l	125 kg
A36714	1300 mm	495 l	135 kg

Model	220	225	313S	320S	320S+	419	420	520	525LPG	528	R20	R28	R35	630	635	640	745	750	760i
Light material bucket																			

Very compatible
 Compatible
 Incompatible

XL light material bucket



The XL light material bucket is a large capacity bucket, best suited to the Avant 600 and 700 series. It is intended for loading and transporting light materials like wood chips, mulch, snow etc. There are no reinforcement plates inside the bucket which would interfere when loading and emptying. The sides open forward in a slight angle, which guarantees easy and complete emptying of all kinds of materials and in difficult conditions also.

Product no	Width	Height	Volume	Weight
A36703	1450 mm	870 mm	710 l	155 kg
A36476	1600 mm	880 mm	780 l	175 kg
A36343	1800 mm	880 mm	900 l	195 kg

- Large volume
- No reinforcement plates inside the bucket
- Robust design
- Intended for bigger Avant loaders

Model	220	225	313S	320S	320S+	419	420	520	525LPG	528	R20	R28	R35	630	635	640	745	750	760i
XL light material bucket																			

Very compatible
 Compatible
 Incompatible

Hand drive control

as an option to the 200 series

Avant 200 series now offers an option for controlling the forward-reverse drive of the loader directly from the joystick. Because the drive can be controlled with a thumb on the joystick, the driver can drive and control the movements of the boom at the same time. This makes it possible also for paraplegic people to make full use of the machine.

The driver can choose between drive pedals and hand drive: the selection is as easy as a flip of a switch on the dashboard.

We got the idea for the hand drive control from our customers some years ago and then produced the first customized machines with hand drive. However, at that time we thought that there was still room for improvement so that the use of the loader would be as easy as possible for people who don't have functionality in their legs or the functionality has weakened. We introduced the new hand drive in the fall 2016 at the Rehacare trade fair in Germany and this time the loader was as easy to use both with hand and with foot – which was our goal all along.

In the pictures you can see the father of the idea from Germany. **Bert Pein** is a very active Avant user who has already driven an Avant loader of the former Avant 200 series with hand drive. Mr Pein has been very pleased with the machine which has made it possible for him to work at his farm despite of his condition.



Avant celebrates 25th anniversary

During the past year, Avant has been celebrating its 25-year history in many ways. Special open doors days have been organized in June and a roadshow with the new Avant 200 series during spring 2016. At the beginning of July we focused on the international celebration together with our importers. The first 25 years have been very exciting for Avant with lots of action and fast development.



Officially the 25-year history of Avant was celebrated on the second of July. Customers and partners as well as the whole staff of Avant had been invited to the celebration, a total of 500 guests. At the celebration guests enjoyed the beauty of a Finnish summer evening, delicious dinner, speeches and good performers. The atmosphere was very international since a large number of Avant importers attended the celebration.

In his anniversary speech founder, CEO and President **Risto Käkälä** revisited the early days of Avant. He presented the company's first balance sheet: equity FIM 2500, liabilities of FIM 1.4 million. From this has started the story of Avant and a determined growth towards being a multimillion company – at the moment reaching EUR 95 million in net sales.

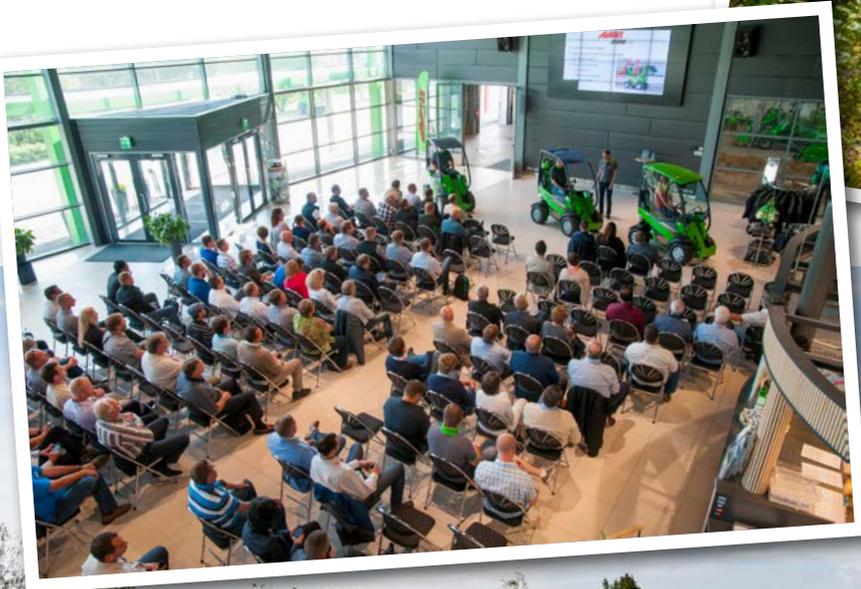
Eyes are still tightly on the future and the target is to continue the good work and growth. The new electronic e series is a good example of Avant's constant development.





Avant dealers were happy to test the new equipment at the Avant Dealer Meeting

Before the 25-year celebration itself we did have time to do more than just party arrangements. The traditional Avant Dealer Meeting was held during the previous week. Two days before the official celebration Avant importers gathered together to the factory for a two-day training event. This year the focus was on driving and testing various Avant loaders and attachments. Also new products and some development plans were presented and importers had the chance to try them out too. This year importers from 43 countries participated the training – 180 people altogether, which is a new record. Thank you to everyone who helped create it!





Avant Tecno Oy invests in 3D printing

World-class 3D printing services are now available also in Finland due to the opening of the first Finnish full-service innovation center for 3D printing in the Tampere Region. Avant Tecno Oy is a partner in the recently founded 3DSTEP Oy which provides training, design and manufacturing services in 3D printing. The company purchased Finland's first large size 3D metal printer which can be used for printing e.g. stainless steel, titanium and aluminium. With the help of the investment, 3DSTEP can provide parts and sub-assemblies which could have not been produced earlier in Finland.

“3D printing is a technique which will surely be more common in the future. Eventually it will be a part of a common manufacturing process. Printing of prototypes, special parts, models, moulds and small series has already been successful. 3DSTEP focuses exactly on this field”, Avant Tecno Oy’s vice president *Jani Käkälä* explains.

“Avant invested in 3D printing because we want to learn more about this new technology of additive manufacturing. We consider 3DSTEP Oy as the best partner for this. Avant is the most advanced

compact loader in the market and we want to ensure our position on top of the development also in the future,” Käkälä states.

The newest purchase of 3DSTEP is the largest and most advanced metal printer in Finland: SLM 280HL which can be used for printing e.g. stainless steel, titanium and aluminium.



Avant springs into action at Polarspring

The water from the Kivistö spring, located in Urajärvi, Finland, is naturally percolated through the pure sand and moiraine layers of Salpausselkä Ridge running through Finland.

The water is pumped straight from the spring to the Polarspring bottling facilities and from there it is delivered to the customers. The Polarspring water has a genuinely fresh and soft taste. In Finland Avant's customers can even enjoy bottled Avant Water, a product created in collaboration with Polarspring.

Avant can manage a slippery surface, snow and ice

Avant 630 has been an important tool at Polarspring since 2012.

"We have a warehouse that is easy to reach with a forklift during the summer but is a challenge during the winter months when there is snow and ice on the ground," says **Kalle Rajakangas** from Polarspring and continues "We started to look for suitable transport equipment to solve this issue. We needed an agile machine that has good lifting capacity and could manage a slippery surface."

Avant provided the answer.

At Polarspring the Avant loader is used all through the year, its power and agility are especially useful during winter. The most important task of the loader is to manage the goods traffic between the warehouse and the manufacturing facilities. In addition to this the loader is actively used in maintenance work, gardening and landscaping. During winter the loader also takes care of snow clearing.

"The Avant loader has fulfilled all the expectations we had and more. We have not regretted the purchase for a moment," says Rajakangas.

"At Polarspring we produce clean and fresh bottled Finnish water with no added chemicals. A main part of the energy used in manufacturing is solar power. This is a quality product. We are happy to say that at Polarspring two quality products have met each other, and even created the Avant Water in the process," says Kalle Rajakangas with a smile.



"We have not regretted the purchase for a moment."



THE GREEN heroes of the road

Asfalttikallio Oy is a Finnish company that provides asphalt paving and construction services. At the moment Asfalttikallio has two Avant 640 loaders in asphalt patching work. Some subcontractors also have their own Avants in use. Avants are used at the patching job sites and they move from job site to job site throughout the year.



Asphalt patching, like many other things, requires expertise, quality materials and the right tools. Asfalttikallio has invested heavily in the development of their own industry. Project Manager **Teppo Haapakoski** has been developing a safer, more efficient and more economical method for asphalt patching for nearly 20 years, the last four working at Asfalttikallio.

“The first Avant for the asphalt repair work was bought in 2000. The loader was purchased used from Norway,” says Haapakoski and laughs “We found out later that this is a product which is made in Finland.”

On a patching job site Avant is the most important machine: It is the machine doing the patching itself. An asphalt spreading machine is attached to the Avant. The asphalt patch is spread by using the weight of the Avant. It is very important that the asphalt mass can be spread out quickly and be closely patched on to the old surface.

“It is important that the patch is tight and long lasting but also thin enough so that there won’t be a large difference between the old and the new surface. We try to prevent the slippery patching track by roughing it immediately after the patch is put on the surface. With Avant both of these jobs are done quickly and with high quality,” says Haapakoski.

Haapakoski says that the Avant is a safe, agile and high-quality machine loader. The best part is that the patching is always top-notch, regardless if it is done on a straight road or in curves.

“All the great features of Avant come out particularly well for example when patching is done in traffic circles. Space is limited and the patch has to be curved and Avant can still deliver the same fine quality,” praises Haapakoski.

The right size and agile

Avant is just the right sized machine for asphalt patching. It moves fast enough, it’s agile and small enough in size, so that it does not cause unnecessary disturbance to other road users. Asphalt patching is done all year round, so it requires durability from the machine and the capability to adapt to Finnish winter conditions. Transition speed at the site must be safe, yet sufficient. The

machine must be capable of complex operations and be agile in many different surroundings.

“In this work, Avant is in use throughout the working day. The after sales and service of Avant works extremely well. We’ve developed many great solutions for the machine with the cooperation of Avant manufacturing. It’s great when the same machine is able to handle both patching and roughing the asphalt. I can just say that the loader works, service works, everything works – Avant is the number one for this kind of work,” says **Aku Vähäsöini**. He has been driving one of the Avants on Asfalttikallio’s patching sites for a couple of years now.

Asphalt patching is done in teams of four persons on one site. These teams move around Finland with two cars: the tank truck has the asphalt mass and the safety car carries all other goods and the Avant. One big advantage of Avant is its easy transferability. The loader moves with the team, with the same car from place to place and doesn’t need to have separately organized logistics.

Asfalttikallio’s operating ideology has many similarities to Avant’s: with minimum equipment and as efficiently as possible – and with high quality. In addition, a beautiful green is the corporate color of both companies.

A good team makes work fun

On Asfalttikallio’s work site the atmosphere is positive and work is done in good spirits. Even a cold breeze cannot get the smile off from the men’s faces.

“We’ve got a good bunch of people working for us. It is important that individuals are welded together and personal chemistry works well in a team. The operation and service of the machinery is also important. We are lucky to have committed and positive people working for the company,” says Haapakoski.

He gives the same feedback for Avant too.

“Avant is a great, high-tech Finnish product, which works excellently. In addition, Avant has efficient employees. They solve problems and develop products according to customer needs. We’re certainly going to continue our close cooperation with Avant in the future. Know your customer, know your product – That’s how it goes!”





Avant compact loader proves perfect for disability charity

UK's leading disability charity, Papworth Trust, has recently used a donation from the Monsanto Fund to obtain an Avant 420 compact, multi-purpose tool carrier as a key piece of equipment for its 12 acre farm near Newtown in Powys.

For many families affected by disability, Papworth Trust's Cilthriew Kerry Farm is able to provide supported breaks where the natural environment and the company of a variety of animals can be enjoyed. This environment gives visitors the chance to improve their physical and mental wellbeing and the 'whole family' approach helps them learn to cope better with the challenges and pressures of disability when they return home.

Commenting on the acquisition of the Avant, farm manager **Natalie Webster** said: "We had almost given up hope of ever finding a suitable machine until we were introduced to the Avant by a local machinery dealer."

"As soon as we saw it," continued Ms. Webster, "we knew it was perfect for us as it was the only machine we'd seen that ticked all the boxes in terms of size, versatility and ease of use."

A 420 model was therefore soon delivered by Beddoes Compact Plant Sales, complete with standard bucket, a mower attachment, harrow and set of pallet forks and all within the farm's available budget thanks to a sharp pencil!

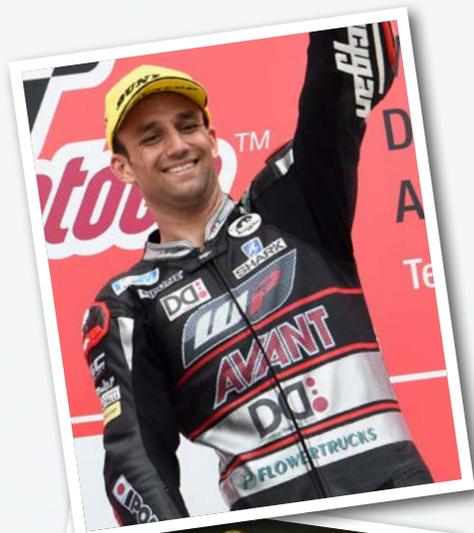
Staff at Kerry Farm now find it easy to support disabled visitors as they move from their wheelchairs onto the Avant's seat – sometimes using a simple slide arrangement. Once in position and the simple joystick control mastered, visitors are soon having a great time carrying out various tasks around the land from cutting grass to collecting firewood.

"The Avant really does level the playing field for our guests," said Ms. Webster, "so they can enjoy independently making a real contribution to the day-to-day running of the farm whilst they are with us".





Road racing team Ajo Motorsport is a **double World Champion!**



Finnish road racing team Ajo Motorsport succeeded beyond all expectations this season by winning both Moto3 and Moto2 world championships.

Ajo Motorsport has dominated the two smallest road racing categories for the last years. The hard work of several years has been awarded by the achieved success. These two world championships are the fifth and sixth for the team.

At the end of September, South African **Brad Binder** secured his Moto3 world championship title by finishing second in the Aragon race in Spain — even though there were still four races to go. Binder's dominance has been striking this season. Continuous placement in the top three ranks (eleven times on the podium) secured the championship at a very early stage.

Avant has been working with Ajo Motorsport since 2008. All of the team's six world championships have been achieved during this period.

At the end of October, Frenchman **Johann Zarco** managed to ensure the Moto2 world championship by winning the penultimate race, held in Malaysia. Zarco is the Moto2 class world champion for the second time in a row. He is also the first driver to win two world championships in the history of the class.

Avant congratulates the fresh world champions Brad Binder and Johann Zarco and the entire Ajo Motorsport team once again for their outstanding performance!



Avant importer in Spain celebrates 40th anniversary

Spanish Avant importer Riversa celebrated their 40 years in business on 20 - 21 October. The family owned company was founded in 1976 by **Julián Lara** in Marbella.

Riversa has been representing Avant in Spain since 2006. According to Lara, Avant is one of the most important brands for Riversa sales. Continuity, quality and sustainability are the principles on which Riversa relies on their daily work.

The 40th anniversary celebration started with a gala dinner attended by over 150 guests. On the next day Riversa organized an open door event at the main office in Marbella.

Avant Tecno's Managing Director **Risto Käkälä** attended the official celebration.

Avant Tecno congratulates Riversa on their 40 years of successful business and thanks the company for the good cooperation over the years.



Avant Shop

Avant Junior DVD 2



- new Avant Junior DVD 2
- 80 minutes
- product no 65390



Avant Memo

- 36 pair & rules
- classic game for the whole family
- manufacturer Tactic, made in Finland
- product no 66374

Weather covers



- weather cover for 200 series
- weather cover for 419-760i
- transport cover for 200 series
- transport cover for 419-640
- transport cover for 700 series

Avant scale model

- with bucket and pallet forks
- telescopic boom
- scale 1:25
- high quality zink diecast
- made in Germany
- product no 66027



For more details, contact your dealer!



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Ylötie 1, 33470 YLÖJÄRVI
FINLAND
Tel. +358 3 347 8800
e-mail: sales@avanttecno.com

www.avanttecno.com