

# AVANT<sup>®</sup>









400-800, e Series



# Right model for every job









**600 series**

	1100 kg		2,8 m		1500 kg - 1590 kg
	26-37,5 hp diesel		14-22 km/h		2570 mm









**700 series**

	1400 kg		3,1 m		1970 kg - 2200 kg
	49-57 hp diesel		17-26 km/h		3060 mm









**400 series**

	600 kg		2,75 m		1080 kg
	22 hp diesel		12 km/h		2195 mm









**800 series**

	1900 kg		3,5 m		2480 kg - 2540 kg
	49-57 hp diesel		26-30 km/h		3395 mm









**500 series**

	800-950 kg		2,8 m		1370 kg - 1460 kg
	22-26 hp diesel		12-19 km/h		2450 mm - 2570 mm



**e series**

	900 kg		2,8 m		1400 kg - 1650 kg
	13,6-13,8 kWh Electric		10 km/h		2570 mm

# Articulated telescopic loader

## Design

The unique articulated chassis design makes Avant an unrivalled machine in its class. It is very stable, easy to drive and turns smoothly, without damaging sensitive surfaces like lawns, paved areas etc. This makes Avant a real multi purpose machine for almost any job. And with additional features to improve operator comfort, work efficiency and work quality:

- **Telescopic loader boom** gives more lift height and outreach – both equally important
- **Modern off center boom construction** guarantees excellent, unrestricted visibility – no need to reach out from the driver's seat in order to see the attachment.
- **Boom self levelling** makes load handling quicker and more precise
- Increased safety thanks to the **load sensor system**
- **Articulated design** allows precise sideways moving of the load in tight situations
- **Avant quick attach system** allows easy, safe and fast attachment coupling.

## Top class features

### Compact, strong and versatile

- High lift capacity and pulling force
- Compact enough to work in tight situations
- Wide model range to suit many customer segments
- More than 200 attachments available, for almost any job

### Advanced technology

- Stepless hydrostatic transmission
- Hydraulically pilot operated variable displacement drive pump – easy and smooth to drive, no wearparts in the drive system
- Easy servicing

### Wide range of options

- Avant is well equipped as standard, and with the numerous optional additions like three different cabs, boom floating, extra hydraulic outlets and many more the Avant can be tailored to meet any requirements



# AVANT driver is always in the front seat



## Best ergonomics

### Best operator position

- Positioned in the front part of the machine, the operator's seat is as close to the attachment as it can safely be, providing an unrestricted view of the attachment working.
- This guarantees excellent work efficiency, precision and safety.

### Off center boom construction

- Allows excellent forward vision and a clear view of the attachment
- More precision, work efficiency and safety
- The machine reaches out – not the driver

### Top class ergonomics

- Ample space even for larger operators
- Easily operated, well-positioned controls
- Safe and easy access to driver's seat
- Certified ROPS/FOPS safety frame with tinted plexiglass canopy is a standard feature



### Multi connector for hydraulic attachments

- Connects all hoses effortlessly with a single hand movement.
- Releases pressure automatically and is always easy and light to connect.
- No oil drops during connecting or detaching.
- It is not possible to connect the multi connector in a wrong way.



# Safety

## Rigid articulation joint

The rigid articulation joint prevents sideways pivot and is a very important feature in a machine of this size. Thanks to this rigid design the risk of tipping the machine over is greatly reduced, because the rear chassis is counterbalancing the front chassis at all times, preventing the front chassis from movement which could otherwise destabilise the machine.

Existing Avant operators pay testament to the stability of the machine, achieved because of this feature.

## Safety frame

Fitted as standard to the Avant loaders the ROPS safety frame with FOPS and tinted plexiglass canopy is a four post structure that provides all round protection for the operator, and the FOPS canopy protects the operator against falling objects. The ROPS frame and the FOPS canopy are tested and certified and comply with the ISO 3471 (ROPS) and ISO 3449 (FOPS) standards.

## Telescopic boom

The telescopic loader boom provides all the advantages of out reach when fully extended and maximum stability as, when retracted, the load is close to the machine during transportation.

## Boom self levelling

Boom self levelling makes load handling quicker and more precise. The self levelling system keeps the load automatically level in all positions of the loader boom. Standard in 500-700 series machines.

## Load sensor

A load sensor is fitted as standard to the Avant 600-800 series and provides an audible warning if the rear wheels are about to lift off the ground. This pre-emptive warning gives the operator more time to react in the event of the machine becoming unstable.



# Three different cab options available



Avant loaders are equipped with a certified ROPS/FOPS safety frame with tinted plexiglass canopy as standard. In addition, there are as many as three different cab options available.

## AVANT Cab L

Avant cab L is an excellent and economical choice when the operator wants to have protection against rain, wind and snowfall. It improves operator comfort and working conditions considerably.

The cab mounts on the standard ROPS frame, which means safety is guaranteed. It consists of windscreen (equipped with wiper and washer), right side window and rear window. Cab L is available for 400-700 and e series.



## AVANT Cab LX

Avant cab LX provides the option of a heated cab for 500-700 series loaders. The cab LX has all the features of cab L and, in addition, is equipped with a door and a heater, which further improve operator comfort in harsh weather conditions. And for warmer seasons the door and windows can easily be removed if required.

All windows, windscreen and door on cab LX and DLX are made of toughened glass.

The optional headlight, blinker, reflector + beacon kit can be installed both on cab L and LX. Cab LX is available for 500-700 series.



## AVANT Cab DLX

The starting point of the design of the DLX cab for 500-700 series loaders was to further improve the ergonomics and driver's working conditions. The DLX cab is designed to provide best possible working conditions also in the roughest environments, from hot to cold temperatures, and from rain to sunshine.

The cab is spacious and offers good visibility, with reduced noise levels. The much wanted options of air conditioning and air suspension seat are also available for the DLX cab on 635 to 760i loaders.

Even though safety, efficiency, multifunctionality and good working conditions are of essence in Avânt's design, we have paid a lot of attention to the appearance of the DLX cab. It represents modern machine design at its best.

Avânt 800 series can be equipped as an option with one cab model (A/C also available), different from the L, LX and DLX cabs. Avânt e series can be equipped with the L cab only.



# Landscaping



## AVANT – the efficient machine for landscaping

Avant really can handle landscaping jobs. This is the work they are doing in over 50 countries already.

Avant has developed a very comprehensive range of attachments to meet the many varied requirements of landscaping and groundcare. Thanks to the Avant collection of attachments, one Avant can undertake the jobs of several different machines. From earthmoving and moving of materials, loading and unloading, digging, leveling, milling and even paving – and also the maintenance jobs like lawn mowing, sweeping etc.

The articulated design and compact dimensions of Avant mean it can work on any site, and it is easy to transport on a trailer from one work site to another. This means projects are completed more quickly, quality is better and time and money is saved.





# Property maintenance



## Property maintenance all-year-round

Avant is an efficient machine for property maintenance, also in tight situations. Thanks to the complete, high quality attachment range it tackles the maintenance jobs all-year-round.

In winter, snow removal can be done not only with a bucket but also with a dozer blade, snow plow, snow broom or even snow blower. Sand spreading with the hydraulic or towable spreader is fast, and it can also be done at the same time as snow removal: with the bucket or dozer blade in the front and the spreader in the rear. The optional spacious cab equipped with efficient heater guarantee comfortable working conditions despite the bad weather.

Different brooms – also with collector box and side brush + water spraying system, and high pressure street cleaners are the ideal tools for cleaning of streets, parks and yards. The complete Avant attachment range is available also for various maintenance jobs in parks, gardens, graveyards and other green areas.



# Farming



## Right size

Avant is the right machine for those farming jobs where a compact and smooth articulated loader is required. It is an excellent solution for silage distribution, demanuring, sweeping and many other jobs on the farm. Avant 400 series can easily lift and transport various hay bales. The heavier silage bales are for the bigger Avants.

A compact loader is the most cost effective way to mechanise many farming jobs like silage distribution, demanuring and cleaning. It is also an unbeatable help in all construction and building jobs on the farm, and a quick and efficient machine for groundcare and property maintenance.

The wide Avant loader model range and over 200 different attachments guarantee that everybody can find the right Avant and efficient attachments for his job.

# Horse stables



## The all round machine for horse stables

Avant is an excellent solution for an all round machine in horse stables and arenas.

Avant is the right choice when an economical yet powerful machine is required which has enough power to handle heavier loads like hay bales.

Thanks to its compact dimensions the Avant can work in tight situations as well.

With Avant you can tackle the horse stable jobs more quickly and easily. You keep the arena in top shape, the environment clean and also do nice landscaping jobs on the green areas. Snow removal in winter is very fast and efficient with the Avant.

A tidy, well kept stable with a high quality horse arena will attract customers.



# Do it yourself and companies



## Do-it-yourself

Avant is an excellent machine for various do-it-yourself jobs – be it smaller earthmoving, material handling, landscaping, sweeping, trenching, lawn mowing... only your imagination sets the limits of what the Avant can do!

## Efficient material handling

For many companies the Avant is an ideal all-year-round forklift truck for outdoors material handling.

Avant has excellent loading and handling capabilities thanks to the telescopic boom and boom self levelling. In addition the Avant you can also do various property maintenance jobs like sweeping, mowing, snow removal etc.



# Construction and Demolition



## The versatile machine for construction sites

Avant is a superb multi purpose machine on construction sites. The compact four wheel drive loader has excellent rough terrain capabilities and can easily handle and transport loose materials, timber, pallets and big bags on sites that other conventional material handlers are too large for. The site mobility an Avant provides leads to potentially large reductions in labour requirements and increased work rates. It saves time and money. The Avant's light weight allows transportation by trailer from yard to site, and from site to site.

As well materials handling, when used with Avant construction attachments such as breakers, trenchers, backhoes, cement mixer barrels and sweeper brushes, an Avant provides one platform for a range of tasks and reduces the number of machines required on site, be they owned or hired by the contractor.



# AVANT<sup>®</sup> 400 series

## A low operating weight, simple and economical

- Perfect for homeowners, horse stables, farming and similar lighter professional use
- Low operating weight allows working on surfaces with limited load capacity and easy transportation on a trailer
- Versatile machine for all four seasons



## Width

Wheel size	Profile	Machine width
5 x 10	tractor	990 mm
23 x 8.50 - 12	tractor or grass	1050 mm
23 x 10.50 - 12	tractor or grass	1090 mm

Model	AVANT 423
Length	2195 mm
Width	see table
Height	1980 mm
Weight	1030 - 1080 kg
Standard wheels	23x8.50-12"grass/TR
Transmission, drive	hydrostatic
Pulling force	700 kp
Drive speed max.	12 km/h
Auxiliary hydraulics oil flow / pressure	34 l/min 185 bar
Turning radius inside/outside*	880 / 1970 mm
Max. lifting height (with telescopic boom)	2750 mm
Max. lifting capacity (hydr.)	690 kg
Tipping load**	550 kg
Engine make and type	Kubota D902
Engine output (ECE R120)	16 kW (22 hp)
Fuel	<b>Diesel</b>

\*) Turning radius with largest wheels 23x10.5-12

\*\*) Load is measured at 400 mm from the attachment coupling plate, including attachment weight ( 70 kg ).

# AVANT® 500 series

## Cant beat this power-to-money ratio

- **OPTIDRIVE™** drive circuit gives more power for drive and hydraulic attachments.
- Simple, effective hydraulics mean good power and low operating costs
- More lifting capacity and pulling force than 400 series
- More spacious cockpit than 400 series



## Width

Wheel size	Profile	Machine width
27 x 8.50 - 15*	TR	1030 mm
23 x 8.50 - 12	TR or grass	1080 mm
23 x 10.50 - 12	TR or grass	1130 mm
26 x 12.00 - 12*	TR or grass	1290 mm
320/60-12 HD*	TR	1290 mm
26.5 x 14.00 - 12**	grass	1420 mm

\*) Bigger wheels will increase total machine height by 20-35 mm

\*\*) Requires 40 mm spacers on the wheel hubs

## Height with cab

Wheels	L Cab	LX Cab	DLX Cab
23" wheels	2020 mm	2010 mm	2030 mm
26" wheels & 320/60-12	2035 mm	2025 mm	2045 mm
27" wheels	2048 mm	2038 mm	2058 mm

## OPTIDRIVE™

Model	AVANT 523	AVANT 528	AVANT 530
Length	2450 mm	2570 mm	2570 mm
Width	see table	see table	see table
Height	1985 mm	1985 mm	1985 mm
Weight	1200 + 170 kg	1250 + 170 kg	1290 + 170 kg
Standard wheels	23x10.50-12" grass/TR		
Transmission, drive	hydrostatic	hydrostatic	hydrostatic
Pulling force	900 kp	940 kp	1050 kp
Drive speed max.	12 km/h	12 km/h	19 km/h
Auxiliary hydraulics oil flow / pressure	34 l/min 185 bar	36 l/min 200 bar	36 l/min 200 bar
Turning radius inside/outside	995 / 2050 mm	995 / 2050 mm	995 / 2050 mm
Max. lifting height	2790 mm	2790 mm	2790 mm
Max. lifting capacity (hydr.)	1350 kg	1500 kg	1500 kg
Tipping load*	800 kg	950 kg	950 kg
Max. breakout force / 50 cm	1100 kg	1250 kg	1250 kg
Engine make and type	Kubota D902	Kubota D1105	Kubota D1105
Engine output (ECE R120)	16 kW (22 hp)	19 kW (26 hp)	19 kW (26 hp)
Fuel	Diesel	Diesel	Diesel

\*) Load is measured at 400 mm from the attachment coupling plate, including attachment weight ( 70 kg ).

# AVANT<sup>®</sup> 600 series

## Perfect combination of power and maneuverability

- **OPTIDRIVE™** drive circuit gives more power for drive and hydraulic attachments.
- High-flow auxiliary hydraulics runs all Avant attachments
- Handles loads up to 1000 kg
- Drive speed as high as 22 km/h (Avant 640)
- Compact enough to work in tight situations as well



## Width

Wheel size	Profile	Machine width
27 x 8.50 - 15*	tractor	1030 mm
23 x 8.50 - 12	tractor or grass	1080 mm
23x10.50-12	tractor or grass	1130 mm
26 x 12.00 - 12	tractor or grass	1290 mm
320/60 - 12	tractor	1290 mm
26,5 x 14.00 - 12**	grass	1420 mm

\*) Bigger wheels will increase total machine height by 13 mm

\*\*\*) Requires 40 mm spacers on the wheel hubs

## Height with cab

Wheel size	23x10.50-12	26x12.00-12 or 320/60-12	27x8.50-15
L Cab	2020 mm	2035 mm	2048 mm
LX Cab	2010 mm	2025 mm	2038 mm
DLX Cab	2030 mm	2045 mm	2058 mm
DLX with A/C on the roof	2166 mm	2181 mm	2194 mm

## OPTIDRIVE™

Model	AVANT 630	AVANT 635	AVANT 640
Length	2570 mm	2570 mm	2570 mm
Width	see table	see table	see table
Height	2035 mm	2035 mm	2035 mm
Weight	1330 + 170 kg	1360 + 170 kg	1420 + 170 kg
Standard wheels	26x12.00-12" grass/TR	26x12.00-12" grass/TR	26x12.00-12" grass/TR
Transmission, drive	hydrostatic	hydrostatic	hydrostatic
Pulling force	1200 kp	1200 kp	1400 kp
Drive speed	14 km/h	14 km/h	11/22 km/h (2 speed)
Auxiliary hydraulics oil flow / pressure	44 l/min 200 bar	66 l/min 200 bar	66 l/min 200 bar
Turning radius inside/outside	900 / 2190 mm	900 / 2190 mm	900 / 2190 mm
Max. lifting height	2835 mm	2835 mm	2835 mm
Max. lifting capacity (hydr.)	1800 kg	1800 kg	1800 kg
Max. tipping load*	1000 kg	1000 kg	1000 kg
Max. breakout force / 50 cm	1250 kg	1250 kg	1250 kg
Engine make and type	Kubota D 1105	Kubota V1505	Kubota V1505
Engine output (ECE R120)	19 kW (26 hp)	28 kW (37,5 hp)	28 kW (37,5 hp)
Fuel	diesel	diesel	diesel

\*) Load is measured at 400 mm from the attachment coupling plate, including attachment weight ( 70 kg ) and with counterweights.



# AVANT<sup>®</sup> 700 series

## Power, comfort and versatility for professionals

- **OPTIDRIVE™** drive circuit gives more power for drive and hydraulic attachments.
- Run all Avant attachments with high-flow auxiliary hydraulics
- Excellent lifting capacity - lifts and handles heavier pallets as well
- Drive speed as high as 26 km/h (Avant 760i)
- Avant 755i and 760i with turbocharged common rail diesel engine comply with the US Tier 4 Final emission regulations, don't need diesel particulate filter nor AdBlue/urea



**OPTIDRIVE™**



## Drive speed and pulling force

Model		320/60-12 26x12.00-12	320/55-15	400/50-15 31x15.5-15
AVANT 745	Drive speed	15 km/h	16 km/h	-
	Pulling force	1330 kp	1240 kp	-
AVANT 750	Drive speed	21 km/h	22 km/h	24 km/h
	Pulling force	1880 kp	1750 kp	1600 kp
AVANT 755i	Drive speed	17 km/h	19 km/h	-
	Pulling force	1330 kp	1240 kp	-
AVANT 760i	Drive speed	23 km/h	24 km/h	26 km/h
	Pulling force	1880 kp	1750 kp	1600 kp

## Width

Wheel size	Profile	Machine width	
		745/755i	750/760i
27 x 8.50 - 15	tractor	1030 mm	1080 mm
26 x 12.00 - 12	tractor or grass	1295 mm	1350 mm
320/60-12 HD	tractor	1295 mm	1350 mm
320/55-15	tractor or grass	1305 mm	1360 mm
400/50-15	tractor or grass	-	1450 mm
31x15.50-15	grass	-	1420 mm

Model	AVANT 745	AVANT 750	AVANT 755i	AVANT 760i
Length	3060 mm	3060 mm	3060 mm	3060 mm
Width	see table	see table	see table	see table
Height (with standard wheels)	2060 mm	2100 mm	2060 mm	2110 mm
Weight	1850 kg	1910 kg	1970 kg	2100 kg
Standard wheels	320/60-12HD TR or 26x12.00-12 grass	320-55/15 TR/grass	320/60-12HD TR or 26x12.00-12 grass	400/50-15 TR/grass
Transmission, drive	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Auxiliary hydraulics	70 l/min	70 l/min	80 l/min	80 l/min
Turning radius inside/outside	1240 / 2780 mm	1240 / 2780 mm	1240 / 2780 mm	1240 / 2780 mm
Max. lifting height	3080 mm	3080 mm	3100 mm	3100 mm
Max. lifting capacity (hydr.)	2100 kg	2100 kg	2100 kg	2100 kg
Max. tipping load*	1400 kg	1400 kg	1400 kg	1400 kg
Max. breakout force / 50 cm	1700 kg	1700 kg	1700 kg	1700 kg
Engine make and type	Kubota V2403	Kubota V2403	Kohler KDI 1903 TCR	Kohler KDI 1903 TCR
Engine output (ECE R120)	36 kW (49 hp)	36 kW (49 hp)	42 kW (57 hp)	42 kW (57 hp)
Maximum torque	156 Nm @ 1600 rpm	156 Nm @ 1600 rpm	225 Nm @ 1500 rpm	225 Nm @ 1500 rpm
Fuel	diesel	diesel	diesel	diesel

\* Load is measured at 400 mm from the attachment coupling plate, including attachment weight (70 kg) and with counterweights.

## Height with cab

	26x12.00-12 or 320/60-12	320-55/15	400/50-15 or 31x15.5-15
LX Cab	2078 mm	2112 mm	2132 mm
DLX Cab	2105 mm	2139 mm	2169 mm
DLX Cab with AC on the roof	2241 mm	2275 mm	2305 mm

# AVANT<sup>®</sup> 800 series

## The biggest and strongest Avant

- Lift capacity up to 1.900 kg
- Lifting height 3,5 m
- Drive speed as high as 30 km/h (Avant 860i)
- **OPTIDRIVE™** drive system - more power to drive and to attachment hydraulics
- Run all Avant attachments with high-flow auxiliary hydraulics
- Avant 860i with turbocharged common rail diesel engine complies with the US Tier 4 Final emission regulations, doesn't need diesel particulate filter nor AdBlue/urea



## Cab AVANT 860i



Height with cab 2230 mm

## OPTIDRIVE™



Model	AVANT 850	AVANT 860i
Length	3395 mm	3395 mm
Width	1490 mm	1490 mm
Height	2200 mm	2200 mm
Weight	2480 kg	2540 kg
Standard wheels	380/55-17" TR	380/55-17" TR
Transmission, drive	hydrostatic	hydrostatic
Pulling force	2100 kp	2100 kp
Drive speed	26 km/h	30 km/h
Auxiliary hydraulics oil flow / pressure	70 l/min 225 bar	80 l/min 225 bar
Turning radius inside/outside	1370 mm / 2990 mm	1370 mm / 2990 mm
Max. lifting height	3500 mm	3500 mm
Max. tipping load*	1900 kg	1900 kg
Max. breakout force / 50 cm	2200 kg	2200 kg
Engine make and type	Kubota V2403 Stage 3B	Kohler KDI 1903 TCR
Engine output (ECE R120)	36 kW (49 hp)	42 kW (57 hp)
Maximum torque	156 Nm @ 1600 rpm	225 Nm @ 1500 rpm
Fuel	Diesel	Diesel

\*) Load is measured at 400 mm from the attachment coupling plate, including attachment weight ( 70 kg ) and with counterweights.

# AVANT® e series

## No exhaust emissions, very low noise

- Battery driven, 100% full electric
- First compact loader with lithium-ion battery (e6), AGM (Absorbent Glass Mat) battery (e5)
- No exhaust emissions, very low noise, Built-in battery charger
- Hydrostatic 4WD
- **OPTIDRIVE™** drive system - more power to drive and to attachment hydraulics
- Strong piston type Poclain drive motors



## Width

Wheel size	Profile	Machine width
27 x 8.50 - 15*	TR	1030 mm
23 x 8.50 - 12	TR or grass	1080 mm
23x10.50-12	TR or grass	1130 mm
26 x 12.00 - 12	TR or grass	1290 mm
320/60 - 12	TR	1290 mm
26,5 x 14.00 - 12**	grass	1420 mm

\*) Bigger wheels will increase total machine height by 13 mm

\*\*\*) Requires 40 mm spacers on the wheel hubs

## OPTIDRIVE™

Model	AVANT e5	AVANT e6
Length	2570 mm	2570 mm
Width (with 23x10.50-12 wheels)	1130 mm	1130 mm
Height (with 23x10.50-12 wheels)	1985 mm	1985 mm
Weight	1640 kg	1400 kg
Standard wheels	23x10.50-12" TR	23x10.50-12" TR
Transmission, drive	hydrostatic	hydrostatic
Drive speed max.	10 km/h	10 km/h
Auxiliary hydraulics oil flow / pressure	30 l/min	30 l/min
Hydraulic oil cooler	Standard	Standard
Turning radius inside/outside	995 / 2050 mm	995 / 2050 mm
Max. lifting height	2790 mm	2790 mm
Max. lifting capacity (hydr.)	1350 kg	1350 kg
Tipping load *)	900 kg	900 kg
Max. breakout force / 50 cm	1100 kg	1100 kg
Battery type	AGM (Absorbent Glass Mat)	lithium-ion
Battery capacity	13,6 kWh	13,8 kWh
Fuel	Electric	Electric

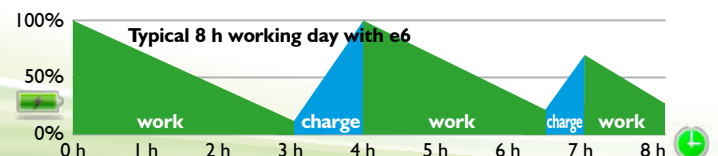
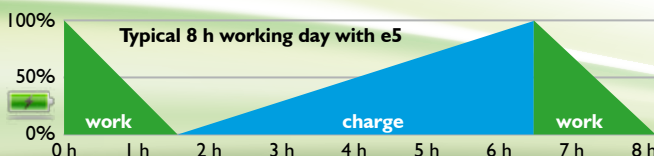
\*) Load is measured at 400 mm from the attachment coupling plate, including attachment weight ( 70 kg ) and with counterweights.



Option:

Rapid battery charger, e6

- Speeds up charging of the lithium-ion battery of e6 considerably compared with the standard built-in 230V/10A battery charger
- Two models available: 400V/16A and 400V/32A
- Charging time:
  - 0 % => 100 % 1 h with 400V/32A, 2 h with 400V/16A
  - 20 % => 80 % 30 minutes with 400V/32A





# AVANT<sup>®</sup>



**Avant Tecno Oy**  
**Ylotie 1**  
**33470 Ylojarvi, FINLAND**  
**Tel. +358 3 347 8800**  
**sales@avanttecno.com**

Familiarise yourself with the wide Avant loader and attachment range on our website:

**[www.avanttecno.com](http://www.avanttecno.com)**

On the website you can also download video clips of the machines at work.

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