

AVANT[®]

ONE MACHINE OVER 200 ATTACHMENTS



400–800, e Series



AVANT
400



1030-1080 kg



2750 mm



550 kg



22 hp



12 km/h

Light and economical workhorse

- Small compact and strong
- Fast and comfortable to operate
- Telescopic boom for improved reach



AVANT
500



1370-1460 kg



2790 mm



800-950 kg



22-26 hp



12-19 km/h

Unbeatable power-price ratio

- Simple, effective hydraulics
- Significantly more lifting capacity
- Telescopic boom as standard



AVANT
600



1500-1630 kg



2835 mm



1100-1190 kg



26-44 hp



11-23 km/h

Perfect combination of power and maneuverability

- Increased auxiliary hydraulics
- 8-function joystick control
- Fast ground speed, max 23 km/h (650i)



AVANT
700



1850-2100 kg



3100 mm



1400 kg



49-57 hp



15-26 km/h

Power, comfort and versatility for professionals

- Excellent lifting capacity
- 8-function joystick control
- Fast ground speed, 26 km/h (760i)



AVANT
800



2480-2540 kg



3500 mm



1900 kg



49-57 hp



26-30 km/h

The biggest and strongest Avant

- Largest lifting capacity 1900 kg
- Lifting height 3500 mm to hinge pin
- 8-function joystick control



AVANT
E SERIES



1400-1640 kg



2790 mm



900 kg



13,6 kWh



10 km/h

The fully electric, battery-powered Avant

- No emissions
- Minimal noise level
- Low operating cost

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.
- **OPTIDRIVE®** drive circuit gives more power for drive and hydraulic attachments.



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

- 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 800 series machines, available as an option in 500-700 and e series

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.



Four 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 four 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 400-800 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 series & 630, 635, 640, 745 and 750.



AVANT Cab DLX

The starting point of the design of the DLX cab for 500 series & 630, 635, 640, 745 and 750 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, 640, 745 and 750. Even though safety, efficiency, multifunctionality and good working conditions are of essence in Avant's design, we have paid a lot of attention to the appearance of the DLX cab. It represents modern machine design at its best.



AVANT Cab GT

The top of the range cab GT is mounted with rubber mounts on the chassis which further reduces vibrations and noise level in the cab. Visibility to the rear wheels is better thanks to larger rear windows.

The cab is equipped with heating, sound-absorbing interior, windscreen washer and wiper, cab air filter and front & rear mudguards as standard.

Optional equipment include air conditioning, air suspension seat, radio, road traffic kit, work light kit, 4-light beacon (2 pcs blinking LED lights above the windscreen, 2 pcs above the rear windows) and rotating beacon.

Cab GT is available for 645i, 650i, 755i, 760i, 850 and 860i.





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[®] 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



Machine width

Wheel size	Profile	Width
5.70-12	TR	930 mm
23 x 8.50 - 12	TR or grass	1050 mm
23 x 10.50 - 12	TR or grass	1090 mm



Width with 5.70-12 tyres 930 mm

Model	AVANT 423
Length	2195 mm
Width (23x8.50-12 wheels)	1050 mm
Height	1980 mm
Weight	1030-1080 kg
Standard wheels	23x8.50-12" grass/TR
Transmission, drive	Hydrostatic
Pulling force	700 kp
Drive speed	0 - 12 km/h
Auxiliary hydraulics oil flow / pressure	34 l/min 185 bar
Hydraulic oil cooler	Standard
Turning radius	880 / 1970 mm
Max. lifting height (with telescopic boom)	2750 mm
Tipping load	550 kg
Engine make and type	Kubota D902
Engine output (ECE R120)	16 kW (22 hp)
Maximum torque	56 Nm @ 2600 rpm
Fuel	Diesel

AVANT® 500 series

Excellent choice with robust and simple hydraulics

- **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

OPTIDRIVE®



Height with cab

Wheel size	26x12.00-12 320/60-12*	27x8.50-15
Cab L	2035 mm	2048 mm
Cab LX	2025 mm	2038 mm
Cab DLX	2045 mm	2058 mm

*) With 23" wheels machine is 15 mm lower

Machine width

Wheel size	Profile	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

Model	AVANT 523	AVANT 528	AVANT 530
Length	2450 mm	2580 mm	2580 mm
Width (with standard wheels)	1130 mm	1130 mm	1130 mm
Height (with standard wheels)	1985 mm	1985 mm	1985 mm
Weight	1370 kg	1420 kg	1460 kg
Standard wheels	23x10.50-12"grass/TR		
Transmission, drive	hydrostatic Avant Optidrive®		
Pulling force	900 kp	950 kp	1050 kp
Drive speed	0 - 12 km/h	0 - 12 km/h	0 - 19 km/h
Auxiliary hydraulics oil flow / pressure	34 l/min 185 bar	36 l/min 200 bar	36 l/min 200 bar
Hydraulic oil cooler	Standard	Standard	Standard
Turning radius inside/outside	995 / 2050 mm	995 / 2050 mm	995 / 2050 mm
Max. lifting height	2790 mm	2790 mm	2790 mm
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	
Engine output (ECE R120)	16 kW (22 hp)	19 kW (26 hp)	
Maximum torque	56 Nm @ 2600 rpm	72 Nm @ 2200 rpm	
Fuel	Diesel	Diesel	

AVANT® 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 1090 kg
- Drive speed as high as 23 km/h (Avant 650i)
- Compact enough to work in tight situations as well

OPTIDRIVE®

Height with cab

Wheel size	26x12.00-12 320/60-12*	27x8.50-15
Cab L	2035 mm	2048 mm
Cab LX	2025 mm	2038 mm
Cab DLX	2045 mm	2058 mm
Cab DLX with air conditioning on the roof	2181 mm	2194 mm
Cab GT(645i/650i)	2070 mm	2083 mm

*) With 23" wheels machine is 15 mm lower

Machine width

Wheel size	Profile	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 13 mm

**) 645i/650i

**) Requires 40 mm spacers on the wheel hubs



Model	AVANT 630	AVANT 635	AVANT 640	AVANT 645i	AVANT 650i
Length	2580 mm	2580 mm	2580 mm	2610 mm	2610 mm
Width (with standard wheels)	1290 mm	1290 mm	1290 mm	1290 mm	1290 mm
Height (with standard wheels)	2035 mm	2035 mm	2035 mm	2060 mm	2060 mm
Weight	1500 kg	1530 kg	1590 kg	1620 kg	1630 kg
Standard wheels	26x12.00-12" Grass / TR				
Transmission, drive	hydrostatic Avant Optidrive®				
Pulling force	1200 kp	1400 kp	1400 kp	1400 kp	1400 kp
Drive speed	12 km/h	14 km/h	22 km/h	12 km/h	23 km/h
Auxiliary hydraulics oil flow / pressure	44 l/min 200 bar	66 l/min 200 bar	66 l/min 200 bar	75 l/min 200 bar	75 l/min 200 bar
Hydraulic oil cooler	Standard	Standard	Standard	Standard	Standard
Turning radius inside/outside	900 / 2190 mm	900 / 2190 mm	900 / 2190 mm	940 / 2250 mm	940 / 2250 mm
Max. lifting height	2835 mm	2835 mm	2835 mm	2835 mm	2835 mm
Tipping load	1100 kg	1100 kg	1100 kg	1190 kg	1190 kg
Max. breakout force / 50 cm	1250 kg	1250 kg	1250 kg	1250 kg	1250 kg
Engine make and type	Kubota D1105	Kubota V1505, 4-cyl.		Kubota V1505-CR-TE5, 4-cyl.	
Engine output (ECE R120)	19 kW (26 hp)	28 kW (37,5 hp)		33 kW (44 hp)	
Maximum torque	72 Nm @ 2200 rpm	97 Nm @ 2200 rpm		118 Nm @ 2000 rpm	
Fuel	Diesel	Diesel		Diesel	

AVANT® 700 series

Outstanding handling capacity

- **OPTIDRIVE®** drive circuit gives more power for drive and hydraulic attachments.
- 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®

Height with cab

Wheel size	26x12.00-12 320/60-12	320-55/15*
Cab L	2060 mm	2094 mm
Cab LX (745/750)	2078 mm	2112 mm
Cab DLX (745/750)	2105 mm	2139 mm
Cab DLX with air conditioning on the roof (745/750)	2241 mm	2275 mm
Cab GT (755i/760i)	2070 mm	2100 mm

*) With 400/50-15 machine is 30 mm higher

Machine width

Wheel size	Profile	Machine width	
		745/755i	750/760i
27x8.50-15	TR	1030 mm	1080 mm
26x12.00-12	TR or grass	1295 mm	1350 mm
320/60-12 HD	TR	1295 mm	1350 mm
320/55-15	TR or grass	1305 mm	1360 mm
400/50-15	TR or grass	-	1450 mm



Model	AVANT 745	AVANT 750	AVANT 755i	AVANT 760i
Length	3060 mm	3060 mm	3060 mm	3060 mm
Width (with standard wheels)	1295 mm	1360 mm	1295 mm	1450 mm
Height (with standard wheels)	2060 mm	2094 mm	2060 mm	2110 mm
Weight	1850 kg	1910 kg	1970 kg	2100 kg
Standard wheels	320/60-12HD TR	320/55-15 TR	320/60-12HD TR	400/50-15 TR
Transmission, drive	hydrostatic Avant Optidrive®		hydrostatic Avant Optidrive®	
Pulling force	1330 kp	1880 kp	1330 kp	1880 kp
Drive speed	0 - 15 km/h	0 - 24 km/h	0 - 17 km/h	0 - 26 km/h
Auxiliary hydraulics oil flow / pressure	70 l/min 225 bar	70 l/min 225 bar	80 l/min 225 bar	80 l/min 225 bar
Hydraulic oil cooler	Standard	Standard	Standard	Standard
Turning radius inside/outside	1240 / 2780 mm	1240 / 2780 mm	1240 / 2780 mm	1240 / 2780 mm
Max. lifting height	3080 mm	3090 mm	3080 mm	3100 mm
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 Stage 3B		Kohler KDI 1903 TCR	
Engine output (ECE R120)	36 kW (49 hp)		42 kW (57 hp)	
Maximum torque	156 Nm @ 1600 rpm		220 Nm @ 1500 rpm	
Fuel	diesel		diesel	

AVANT[®] 800 series

Avant's largest and most powerful model

- Lift capacity up to 1.900 kg
- Lifting height 3,5 m
- Fast travel speed: 30 km/h (860i), 26 km/h (850)
- **OPTIDRIVE[®]** drive circuit gives more power for drive and hydraulic attachments.
- 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

OPTIDRIVE[®]



Machine height

Wheel size	380/55 - 17 TR
ROPS	2200 mm
Cab GT	2230 mm

Model	AVANT 850	AVANT 860i
Length	3395 mm	3395 mm
Width (with standard wheels)	1490 mm	1490 mm
Height (with standard wheels)	2200 mm	2200 mm
Weight	2480 kg	2540 kg
Standard wheels	380/55-17" TR	380/55-17" TR
Transmission, drive	hydrostatic Avant Optidrive [®]	
Pulling force max.	2100 kp	2100 kp
Drive speed	0 - 26 km/h	0 - 30 km/h
Auxiliary hydraulics	70 l/min 225 bar	80 l/min 225 bar
Hydraulic oil cooler	Standard	Standard
Turning radius inside/outside	1370 mm / 2990 mm	1370 mm / 2990 mm
Lifting height to pivot point	3500 mm	3500 mm
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 1903TCR
Engine output (ECE R120)	36 kW (49 hp)	42 kW (57 hp)
Maximum torque	156 Nm @ 1600 rpm	220 Nm @ 1500 rpm
Fuel	diesel	diesel

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

OPTIDRIVE®



Machine width

Wheel size	Profile	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

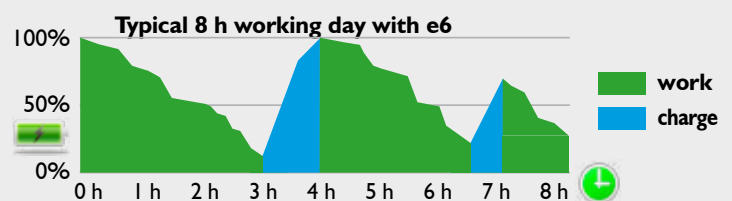
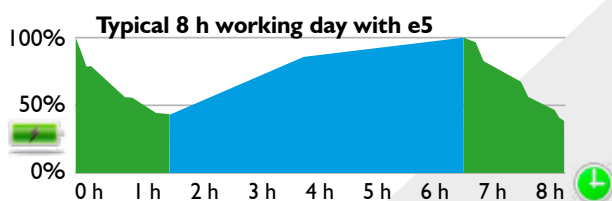


Option:

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 % about 1 h with 400V/32A, about 2 h with 400V/16A
 - 20 % => 80 % about 30 minutes with 400V/32A

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 Avant Optidrive®	
Drive speed	0 - 10 km/h	0 - 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
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



AVANT®



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