



Fully electric Avant: The whole workday on a single charge

- ✓ 100% electric Avant
- ✓ Avant OptiTemp® battery optimized for Avant loaders with a next generation thermal management system and unique security solutions
- ✓ The right machine for indoor spaces with low ventilation
- ✓ Complies with the tightening emission and noise level regulations at worksites
- ✓ Efficient work in both hot and cold conditions
- ✓ Optidrive® drive system – more power to drive transmission and attachment hydraulics

The renewed Avant e series starts a new era for electric loaders. These third-generation electric loaders are equipped with Avant OptiTemp® lithium-ion batteries, designed by Avant Tecno specifically for Avant loaders. The batteries are manufactured by Avant Power in Ylöjärvi, Finland. The battery capacity of the new loaders in relation to the price is highly competitive, and the globally unique battery technology further improves safety, working time, durability, and lifespan. Avant e series is like the 500 series diesel loaders in terms of dimensions and characteristics – but without the combustion engine emissions or maintenance needs.

The new fully electric loader models, the Avant e513 and Avant e527, are identical in dimensions. The only difference lies in the capacity and weight of the lithium-ion batteries.

The Avant e513 is equipped with a lithium-ion battery with a capacity of 13 kWh. This loader model is a good choice for intermittent use, e.g. for cattle farms, horse stables, nurseries and gardens with greenhouses and other indoor jobs. Depending on the prevailing conditions, the operating time in medium duty loading work is approximately 3 hours.

The Avant e527 has a higher capacity lithium-ion battery (27 kWh). This loader model is ideal for demanding professional use – a great choice for construction and demolition contractors. The operating time in medium duty loading work is up to 6 hours, depending on the prevailing conditions. With a fully charged Avant e527, you can work all day practically on any construction site.



2610 mm



**1420 kg –
1500 kg**



2790 mm



900 kg



**13 kWh
27 kWh**



0 – 10 km/h

Specifications



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

Charging times

| Model | AVANT e513 | AVANT e527 |
|------------------------------------|------------|------------|
| On-board charger 3 kW, standard | 2 h 50 min | 5 h 40 min |
| Rapid charger 400V/16 A, option | 1 h 10 min | 2 h 20 min |
| Rapid charger 400V/32 A, option | - | 1 h 10 min |

Charging time is affected by prevailing conditions and temperature. The charging times are indicated from 10% to 80% of the battery's available charge level (SOC).

| Model | Avant e513 | Avant e527 |
|---------------------------------|------------------------------|------------------------------|
| Length | 2610 mm | 2610 mm |
| Width | 1130 mm | 1130 mm |
| Height | 1985 mm | 1985 mm |
| Weight | 1420 kg | 1500 kg |
| Standard wheels | 23x10.50-12" TR | 23x10.50-12" TR |
| Transmission, drive | hydrostatic Avant Optidrive® | hydrostatic Avant Optidrive® |
| Drive speed* | 10 km/h | 10 km/h |
| Auxiliary hydraulics | 30 l/min | 30 l/min |
| Hydraulic oil cooler | standard | standard |
| Turning radius inside / outside | 995 / 2050 mm | 995 / 2050 mm |
| Lift height | 2 790 mm | 2 790 mm |
| Max. tipping load** | 900 kg | 900 kg |
| Max. breakout force / 50 cm | 1100 kg | 1100 kg |
| Battery type | Avant OptiTemp®, lithium-ion | Avant OptiTemp®, lithium-ion |
| Capacity | 13 kWh | 27 kWh |
| Lithium ion battery voltage | 44V | 44V |
| Fuel | electric | electric |
| Operating time*** | 3 hours | 6 hours |

* 15" wheels

** with 180 kg rear side weights

*** In medium duty loading work; no hydraulic attachments used.