
AMT
ZERO EMISSION
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SMALLER FOOTPRINT
MODULAR TECHNOLOGY
EFFICIENT
AMT
ZERO EMISSION

EFFICIENT, SAFE AND ZERO EMISSION

In a world that is constantly changing, it becomes increasingly important to reflect on the decisions we make. AMT develops and produces zero-emission construction machines, enabeling the user to work 24/7, efficiently, safely, and completely without emissions.

A zero emission powertrain provides the machine with unique features. The power and operation are equivalent to the version running on fossil fuel, while the machine is also quieter and has no harmful amissions.

The modular concept with interchangeable battery packs enables the user to work 24/7.

MODULAR TECHNOLOGY

Modular technology, available for new and existing machines

In addition to powertrains, AMT develops modular energy carriers (battery packs and plug-in hydrogen), which can be used in both smaller and larger machines. In many cases, these are interchangeable. In addition, by using multifunctional machines, your zero emission machinery can be used more efficiently and downtime will be minimised.
The following machines and vehicles are currently available as zero emission or hybrid versions:

* Excavators
* Telehandlers and aerial work platforms
* Unimog (hybrid)
* ATV vehicles (buggies and quads)
* Shunting vehicles
* Self-propelled rail trailers
* Trackbots

The battery packs can also be used as external power source for charging other devices and machines. The inverter box has three outputs, one output 400VAC-32A and two outputs 230VAC. With almost 90kWh of capacity in this compact unit, it is one of a kind.

As battery charging is a challenge in certain cases, AMT has developed a 'Plug-in hydrogen module'. This module has the same footprint and is interchangeable with battery packs. The module converts hydrogen into electricity through a fuel cell.

Technical information on these applications can be found at the back of this brochure.

SPECIFICATIONS

Battery pack 90 or 180

- Capacity 86.5kWh or 184kWh
  Lithium Iron Phosphate
- Stand alone BMS (Battery Management System)
- Internal heating
- Indicator SOC (State Of Charge)
- Charging interface CCS2 (DC)
  Charge rate up to 60kW or 100kW
  Charge temperature 0-45 °C
- Machine interface Harting
  HV 600VDC / Data 24VDC / HVIL 5DVC
  Discharge temperature -20 / +50 °C
- Steel casing with 4 lifting eyes
  950 x 840 x 575 or 950 x 840 x 1150
  Powder-coated, 2-layer RAL 7024
  IP65 / Shock and vibration resistant
- 750 kg or 1900 kg
- Guarantee 3000-5000 Load cycles 70% SOH

Inverter box

- Output 1x 400 VAC / 2x 230 VAC
- 32 Ampere
- Cloudmodule
- Water-cooled

Electric-Excavator

- Atlas 150/160/180 (wsr)
- Weight class 16 - 24,000 kg
- Fully electric drive train
  Water-cooled Permanent Magnet motor
  Infinitely variable speed control
  121kW continuous
- Charge interface CCS2 (DC) max. 120kW
  Charge interface type 2 (AC) max. 2x 22kW
- Changeable battery packs total approx. 360kWh
  Operating time 9-14 hours
- HMI screen with up-to-date battery and powertrain information
- Cloud module with online information: charging, energy consumption and machine status

Hydrogen

- Plug-in H2 fuel cell (interchangeable)
- Steel casing with 4 lifting eyes
  950 x 840 x 1150
  Powder-coated, 2-layer RAL 7024
  Shock and vibration resistant
  1900 kg
- Capacity max.10kg H2 @300B ~ 180kWh

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