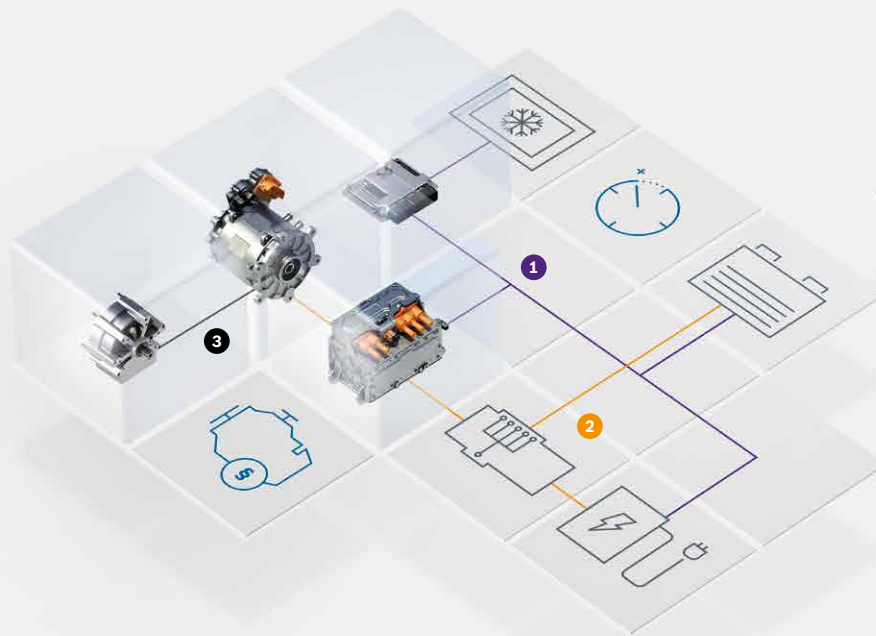


Electrified and designed for sweeping tasks

Purely electric drive



BOSCH
Invented for life



- 1 Communication
- 2 High voltage
- 3 Mechanical connection

Electric drive for the street sweeper

AREA OF APPLICATION

With the increase of environmental awareness, municipalities are putting more focus on electrified vehicles in their vehicle fleet. The street sweeper with the electric drive from Bosch Engineering reduces not only noise and emissions, but also increases the economic efficiency in daily use.

SYSTEM DIMENSIONING

The topology definition for the street sweeper including the selection of the appropriate components was done with a particular focus on the intended purpose. Special focus was put on the performance necessary for sweeping and transport. The battery and charger allow interim charging during breaks. The components are designed for optimal functionality and connected with short cable lines. The design includes a high and low voltage network, as well as a cooling circuit. The electric drive for the street sweeper complies with the valid standards for functional safety DIN EN ISO 13849 and also the guidelines for high voltage and product safety.

SYSTEM BENEFITS

The electric drive reduces noise to a minimum. This allows operators to use the sweeper during low traffic hours, such as early in the morning or in the late evening. These additional service times make the operation of the street sweeper more efficient and economical.

VEHICLE DATA

- ▶ Electrified drive: e-machine SMG180, inverter INVCON 3.3, reduction gear EDT180, Electric Drive Control Unit (EDCU)
- ▶ Power: 60kW
- ▶ Maximum speed: 62 km/h
- ▶ Total weight: 5 tons

