

# Kalmar FastCharge™ AGV.

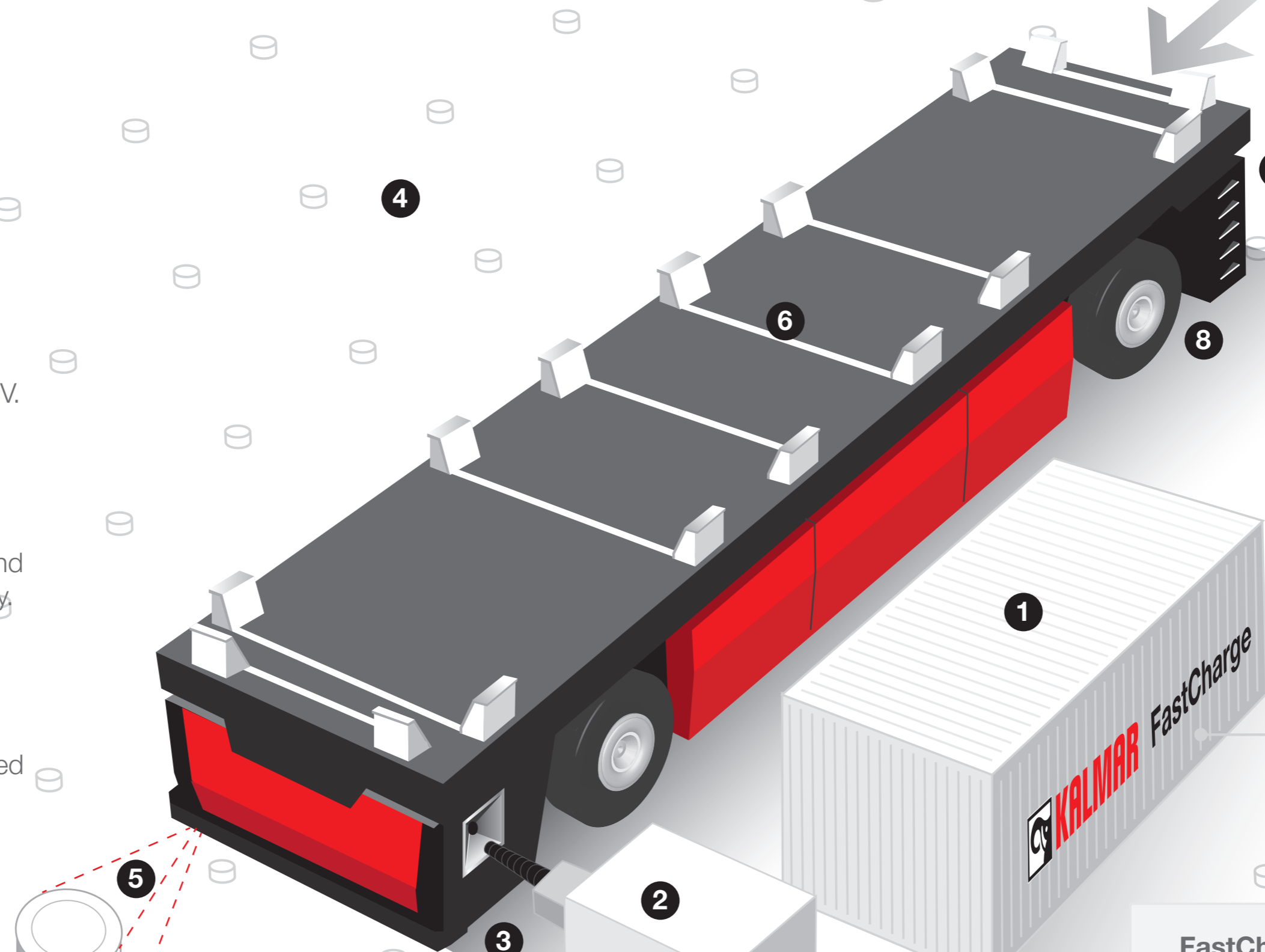


## FastCharge Solution.

- 1 FastCharge station is suitable for both low and high voltage power grids.
- 2 Automated and safe charging connection between the FastCharge station and AGV.
- 3 Standardised communication between AGV and the FastCharge station for reliable charging.

## AGV Navigation System.

- 4 Ground based transponder grid enables safety rated absolute positioning and reliable navigation of the AGV.
- 5 Laser based obstacle detection system detects any obstacles on the driving path.
- 6 The Inertial Measurement Unit (IMU) provides three dimension acceleration as well as vehicle roll, pitch and yaw to improve the positioning accuracy and reliability.
- 7 AGV communication is backed by an all weather, high availability, secure Wi-Fi network. Tele-operation device for service and maintenance.
- 8 Redundant odometry sensors to measure wheel speed and steering angle for accurate dead-reckoning.



### FastCharge™ charging station

- Charging type: DC fast charging
- Charging power: 0-600 kW
- Time to full charge: 5 min @ 600 kW
- Typical charging time in one operation: 30 to 180 sec @ 600 kW

### FastCharge™ charging connection

- Charging current: Up to 800A
- Combined Charging System (CCS) for standardized communication interface.

