



Mobility



Energy



Environment



Driving Inductive Charging Innovation

# INTIS – Inductive Charging Technology

## Autonomous industrial vehicles



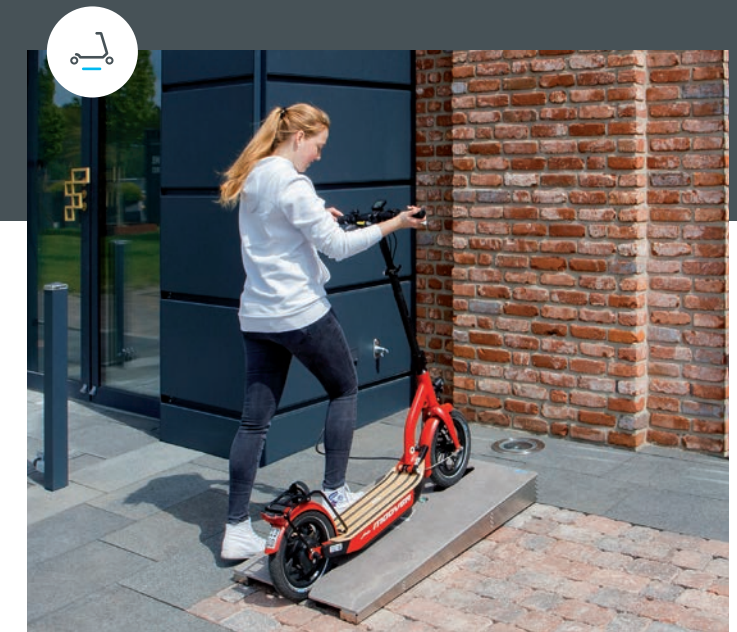
## Autonomous shuttles



## EV's and taxi waiting lanes



## Micromobility



### KEY FEATURES

- ▶ Available for low voltage (up to 80 V) and high voltage (up to 800 V) vehicle batteries
- ▶ Vehicle charging current up to 800 A for low voltage systems
- ▶ Horizontal or vertical charging pad configuration
- ▶ Completely autonomous charging

- ▶ Charging power up to 50 kW
- ▶ Suitable for lithium-ion or lead-acid batteries
- ▶ Integration of INTIS positioning information with shuttle control possible
- ▶ Charging pad on-ground or in-ground configuration possible

- ▶ Charging power up to 50 kW
- ▶ Suitable for retrofitting to existing EV's
- ▶ Semi-dynamic charging possible - charge while stopped and rolling
- ▶ Fully automatic charging

- ▶ Charging power up to 500 W
- ▶ Available for 36 V and 48 V vehicle batteries
- ▶ On-ground or in-ground integration possible
- ▶ Available for e-scooters, e-bikes and robots

### ADVANTAGES

- ▶ Higher availability
  - ⊖ fewer back-up vehicles required due to more frequent opportunity charging
- ▶ Reduced life-cycle costs
  - ⊖ reduced maintenance with no wearing parts
- ▶ Increased longevity
  - ⊖ operate your battery at optimum state of charge

- ▶ Reduced operational costs
  - ⊖ completely autonomous charging
- ▶ Reduced shuttle cost and weight
  - ⊖ smaller batteries possible with frequent opportunity charging
- ▶ Increased longevity
  - ⊖ optimum charging pattern for the vehicle's battery

- ▶ Increased vehicle uptime
  - ⊖ fewer charging stops required, use of dead-time in waiting lanes for charging
- ▶ Increased user convenience and reduced maintenance cost
  - ⊖ no need for plug-in connections
- ▶ PHEVs: cost reduction by driving in EV mode
  - ⊖ minimising fuel consumption

- ▶ User-friendly automatic charging
  - ⊖ just park and go!
- ▶ Battery-saving
  - ⊖ intelligent control system for charging process
- ▶ App-compatible
  - ⊖ remote condition monitoring possible

# Getting to know INTIS

INTIS GmbH specialises in integrated engineering services in the fields of mobility, energy and environment.

We focus on the development, realisation and operation of environmentally compatible and resource-saving infrastructure, relying on experienced employees and our own test facilities.

A key area is the development of inductive charging technologies for a wide range of powers and applications, both in the public and industrial sectors. With more than 10 years' experience, we continuously contribute to research projects and offer new solutions in the field of wireless charging technology.



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