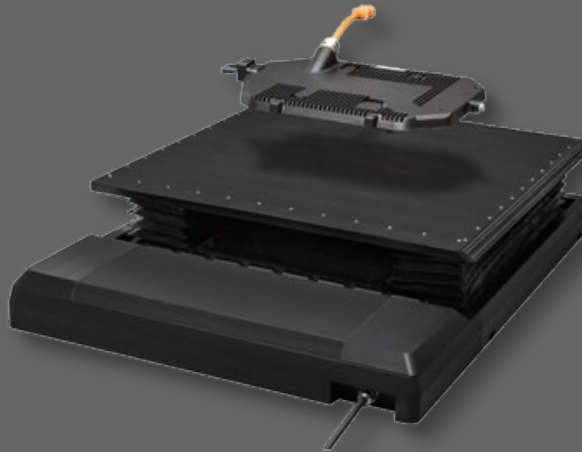


E-CAR

PRIMOVE WIRELESS CHARGING

The Z-Mover



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For e-cars, *PRIMOVE* offers an efficient, safe and economically attractive charging system: the Z-Mover, a charging system that always ensures optimum distancing between transmission coils.
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WHY CHOOSE PRIMOVE CHARGING?

Automatic

- No cables or plugs
- Integrated positioning system
- Ready for autonomous parking
- Designed for outdoor use



Efficient

- One system fits all vehicle heights
- Highest efficiency
- Compact and lightweight design



Safe

- Integrated state-of-the-art metal detection
- Minimized electro-magnetic emissions
- No access for living objects
- Pinch protection included



THE TECHNOLOGY BEHIND



1. An optimized air gap ensures improved efficiency compared to systems with higher gaps between the coils

2. A particularly small, light and cost efficient vehicle coil assembly, due to a special magnetic design and the reduced air gap

- Homogenous primary field thanks to the wayside coil being a 3-phase, multipolar system
- Significantly smaller profiles of the copper wires and less ferrites in the receiving coil in the vehicle
- Design supporting high efficiency even when misaligned

3. Flexibility on z-axis

- One vehicle coil for all vehicle heights (sports car, limousine, SUV, cross-country)

4. 3-6 times smaller electro-magnetic stray-field, compared to a system without Z-mover

- Distance to vehicle floor: 1.0 cm
- Distance between copper coils: 3.5 cm

5. No need for "living object detection" due to extra small air gap

6. Savings on magnetic material, power electronics and safety systems

- Significantly higher than additional material cost for the mechanical system

7. Made for continuous outdoor use

- Operating reliably under all weather conditions



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