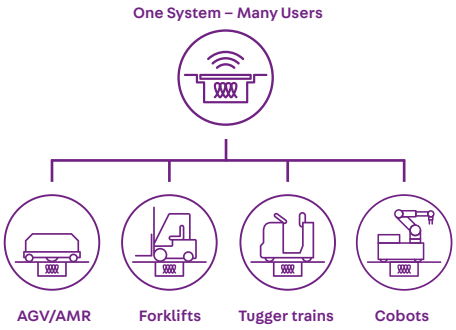
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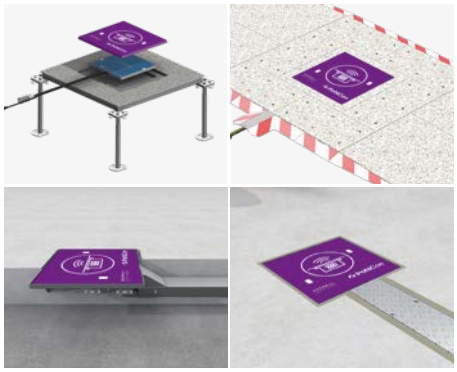
# WCPS

## Wireless Charging Protection System

The WCPS charging infrastructure is harmonized with the charging technology from Wiferion and also enables interoperable charging of different vehicle classes. The load capacity of the system allows it to be driven over, which enables in-ground use for mixed traffic and intersecting routes. The WCPS is certified as an infrastructure product. Integration into new and existing buildings is minimally invasive, simple and quick.



### One system – many users

The WCPS makes it possible for a large number of vehicle types and classes that share routes and tasks to use the system. It does not matter what type of battery or weight of the vehicle, as long as it is equipped with the technology. The system is accessible from all sides thanks to the flush-floor integration and therefore offers full flexibility for the autonomous fleet.

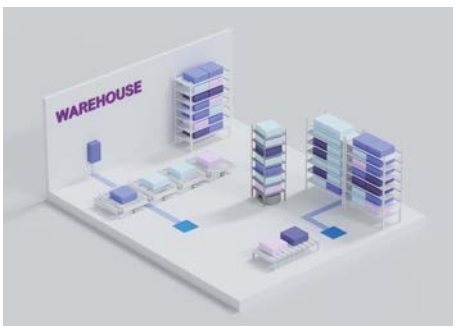
### The system at a glance

WCPS is a flexible wireless charging infrastructure system for installing contactless charging stations flush with the floor. The charging infrastructure can be used as a stand-alone solution or in combination with other flushmounted charging pads. WCPS combines optimum usability with pioneering charging technology, whether flush with the floor, in a raised floor or a ramp-plateau.

### Benefits

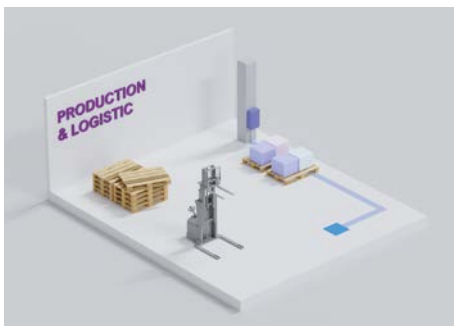
- Charging infrastructure flush with the floor for driving over
- Process-optimized fleet management through in-process charging
- Up to 30% smaller fleet and up to 50% smaller batteries
- More added value by eliminating separate charging zones and restricted areas
- Up to 80% space saving
- Interoperable system allows flexible use of vehicles
- Avoidance of violent damage to the charging technology thanks to flush-floor integration
- High level of occupational safety due to the elimination of tripping hazards/ exposed cables
- Easy to integrate, both in new buildings and as a retrofit solution in existing buildings

# WCPS in Applications




### Never stand still

Modern logistics works around the clock, seven days a week. Efficient fleet planning is therefore essential in order to meet the high demands. Cleverly planned charging points can ensure that the fleet operates at a stable, high charging status and that there are no breaks due to fleet changes or charging times. This is how to make your logistics fit for the future.




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OMRON & PohlCon

**In the evolving landscape of industrial automation, OMRON mobile robotics solutions LD-60, LD90, LD90x and OL450 S2/S3 setting new standards in flexibility, safety, and efficiency.**
These autonomous mobile robots (AMRs) optimize manufacturing and logistics with high load capacities, precise navigation, and advanced safety features. The LD-Series enhances logistics with versatile load handling, revolutionizes intralogistics. The LD-Series combines mobile platform mobility with collaborative robot precision, suitable for diverse industrial tasks. Empowered by **PohlCon's** state-of-the-art **wireless charging infrastructure**, these AMRs ensure seamless, continuous operation, unleashing their full potential. Together, OMRON and PohlCon are driving the future of smart manufacturing and logistics.





### OL Series – OL450S2 / OL450S3

**Payload**
- 450 kg maximum payload

**Dynamics**
- Omnidirectional drive (forward/backward, lateral, on-the-spot rotation)
- Turning circle 750 mm, swing radius 685 mm

**Battery / Runtime**
- Wireless (inductive) charging; 40 min from 20 % to 80 %
- Operating time 11 h (no load) / 7 h (full load)

**Dimensions & Weight**
- Footprint approx. 771 × 692 mm; underride height 108 mm
- Overall height 2236 mm; weight 185 kg (S2) / 190 kg (S3)

**Orientation / Navigation**
- 360° LiDAR coverage, natural feature navigation, ISO 3691-4 safety

**Technology Highlights**
- Integrated lift platform 108–308 mm
- FLOW Core fleet manager
- Dynamic safety system
- Wireless charging compatible with WCPS wireless charging infrastructure from PohlCon



### LD250

**Payload**
- 250 kg (Cart version 500 kg)

**Dynamics**
- 1.2 m/s; rotation 120 °/s

**Battery / Runtime**
- 13 h (no load) / 10 h (full load); 72 Ah
- 2 h 10 min charging (20 % → 80 %)

**Dimensions & Weight**
- 969 × 720 mm; height 500 mm; 148 kg

**Orientation / Navigation**
- Front LiDAR 240°; optional side lasers; Acuity localisation

**Technology Highlights**
- CAPS / HAPS docking
- FLOW Core fleet manager
- ESD version available
- Optional contactless charging
- Compatible with WCPS wireless charging infrastructure from PohlCon



### LD60, LD90 and LD90x

**Payload**
- LD60: 60 kg
- LD90: 90 kg
- LD90x (Cart): 170 kg (cart transporter configuration)

**Dynamics**
- LD60: 1.8 m/s; rotation 180 °/s
- LD90: 1.35 m/s; rotation 180 °/s
- LD90x: 0.9 m/s; rotation 180 °/s (cart drive)

**Battery / Runtime**
- General: Li-Ion ($LiFePO_4$) 72 Ah; charging 20 % → 80 % in approx. 2 h 10 min
- LD60: operating time approx. 15 h (no load) / 12 h (full load)
- LD90 / LD90x: approx. 20 h (no load) / 15 h (full load)

**Dimensions & Weight**
- LD60/90: 699 × 500 mm (L × W); height 383 mm; weight 62 kg
- LD90x (Cart): 894 × 1074 mm; height 1394 mm (incl. antenna); weight 81 kg (vehicle) + 23 kg (cart)

**Orientation / Navigation**
- Front safety LiDAR 240° + optional side lasers; natural feature SLAM; optional Acuity camera (all models)
- CAPS / HAPS docking systems for ±8 mm positioning accuracy

**Technology Highlights**
- FLOW Core Fleet Manager for ≤ 100 AMR
- Automatic docking / inductive charging (station 12477-000)WCPS wireless charging infrastructure from PohlCon

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