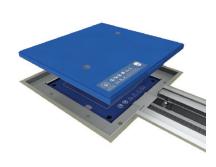


# JORDAHL® WCPS™

Wireless Charging Protection Systems

## Opportunity at Every Stop™



WCPS-R-3013™ In-Floor Protection System



WCPS-Ramp™ On-Floor Protection System



WCPS-RF™ Raised-Floor Protection System



## In-Process Wireless "Opportunity" Charging

#### **Optimized Energy Management**

The efficiency of autonomous logistics depends significantly on optimized energy management and when vehicles are charged as part of the working process, enormous productivity gains can be achieved. Autonomous transportation systems, EVs, AGVs & AMRs, are part of interlinked and highly efficient value chains where reliable and harmonized energy supplies are essential.

When the decision is made to automate intralogistics processes by using autonomous vehicles, it is imperative to integrate the appropriate charging methodology as a part of the working process.

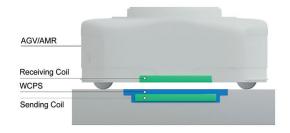
An efficiently planned energy supply has a large impact on the optimal deployment and availability of the fleet as well as their operational readiness in the workflow. Addressing the power supply of vehicles early and opting for contactless wireless charging technology unleashes the full potential of your autonomous fleet.

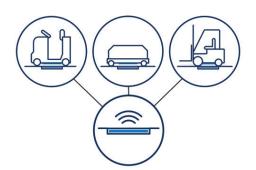
Implementation of in-process opportunity charging allows for optimized fleet management and significantly improved vehicle uptime while smaller fleet sizes with higher utilization result in increased efficiency throughout the entire process.

#### **Opportunity at Every Stop**

Charging coils are placed in the ground under a protective cover and are activated only when a matching receiving coil is positioned above it.

Charging begins immediately and ends as soon as the 2 coils are no longer in position. More locations equal more opportunity to charge and intelligently planned charging points ensure a stable high state of charge and maximum utilization.





## Flexible, Scalable & Industry Ready

By eliminating restricted areas and detours for off-line charging, each process can be ideally interlocked optimally combining vehicle types with one another to create a smoother, more reliable and safer process.

## Protected by Jordahl®

## Introducing the WCPS™ from Jordahl

Introducing the Wireless Charging Protection Systems (WCPS) from Jordahl, flush-to-the-floor, on-floor and raised floor contactless charging protective infrastructure for wireless charging systems

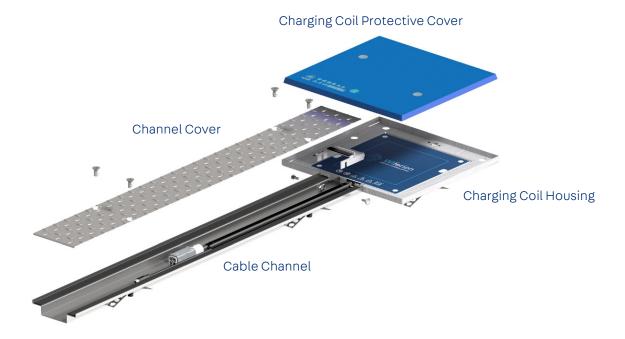


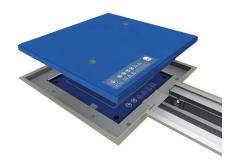


## Jordahl® WCPS-R-3013™

In-Floor, Wireless Charging Protection System

WCPS-R-3013<sup>™</sup> is the industry ready, flexible, scalable protection system for in-floor installation of wireless charging systems. The WCPS-R-3013 can be used as a stand-alone solution or in conjunction with other floor-mounted or vertically mounted charging solutions, combining optimum usability while remaining flexible to future charging technologies. Designed for mixed traffic the WCPS-R-3013 can be approached from all sides providing maximum flexibility for the entire autonomous fleet. The WCPS-R-3013 consists of 4 primary components, the charging coil housing, the cable channel, channel covers and the charging coil cover.





## The WCPS-R-3013™ Advantage

- VDE certified, IP65 protection class
- Total protection for wireless charging systems
- Flush mounted, safe and traffic ready
- In-process opportunity charging of EVs, AGVs & AMRs
- Superior safety with fewer restrictions
- Highly resistant to external elements
- Perfectly suited for demanding environments
- Scalable

## Integrated

The WCPS-R-3013 can be easily integrated into new or existing construction and is always flush to the floor.

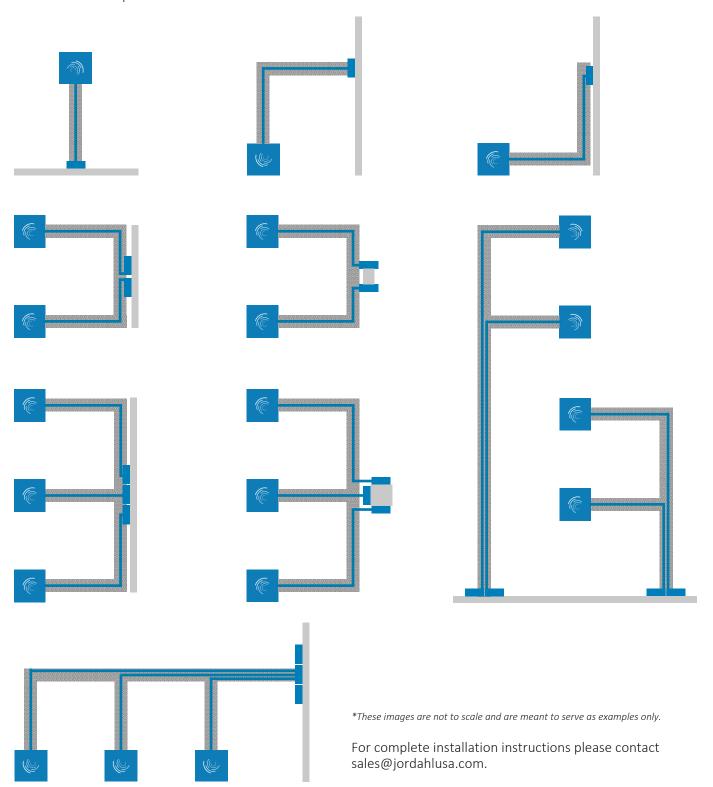




## **WCPS-R-3013™**

## Configuration Examples

The WCPS-R-3013 can be configured in a variety of ways including adding multiple charging stations off of a main channel, using right angle channels and adding extensions. The channels and channel covers can be cut to length and angle as desired. The charging module can be mounted to walls, columns, posts, pillars, racks or stands. Below are several possible installation scenerios for the WCPS-R-3013.



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## Jordahl® WCPS-RAMP™

On-Floor, Wireless Charging Protection System

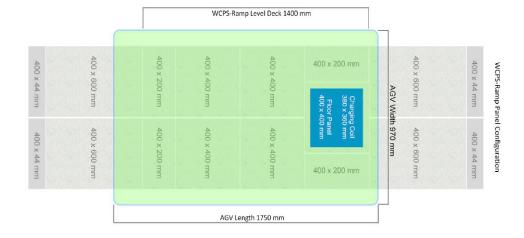


The WCPS-RAMP™ is a fully integrated on-floor wireless charging protective infrastructure for wireless charging systems. Designed specifically for demanding on-floor applications in industry, manufacturing, logistics, laboratories, clean rooms and warehouses. The WCPS-RAMP is a non-permanent, modular, safe, flexible, industry ready solution for protecting wireless charging systems.

#### The WCPS-RAMP™ Advantage

- Safe, Secure, Work-Flow Optimized
- Easy Installation and Set Up
- Adaptive, Repositionable, Expandable
- Non-Invasive Installation
- Bfl-S1 Fire Protection Rating
- Slip Class: R9 (DIN 51130)
- ISO3 Clean Room Compatible
- Electroconductive (DIN EN 108)
- Trip Protection Side Strips
- Resistant to cleaning agents & chemicals





Due to its modular design, the WCPS-RAMP™ can be easily expanded by adding additional panels.

Standard Size: 2688 x 800 x 21 (mm)

#### **Expansion Panel Sizes**

- Ramp Plateau 200 x 400 mm
- Ramp Plateau 400 x 400 mm
- Ramp Module 400 x 600 mm

## Jordahl® WCPS-RF™

Wireless Charging Protection System for Raised Floors



The WCPS-RF™ is a fully integrated wireless charging protective infrastructure for wireless charging systems. Designed specifically for raised floor applications in industry, logistics, laboratories and clean rooms the WCPS-RF consists of 3 primary components, the protective charging coil housing, the integrated floor panel and the protective PCX charging coil cover.



#### The WCPS-RF™ Advantage

- Integrated Floor Panel (DIN 51130)
- Protective Charging Coil Housing
- PCX Protective Coil Cover
- Load rated to 1,124 lbs (DIN 12825)
- Bfl-S1 Fire Protection Rating
- ISO 3, Clean Room Certified
- Electroconductive (DIN EN 1081)



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