

**Safer**

# Proposing AGV automatic charging

 It can be done without problems such as breakage of the electrode part.  
**Happy advantages**

 Introduction of wireless charging system  
**Viewing points**

## Current status

### Dangerous about contact

- Danger 1: Danger of dirt and dust on the electrode part!
- Danger 2: Dangerous when AGV makes a false start!
- Danger 3: Danger of electric shock from electrical contacts!



## After improvement

### Safe and secure with wireless charging

- Safe and Secure 1: Safe and secure even if dirt and dust attached
- Safe and Secure 2: Dangerous when AGV makes a false start!
- Safe and Secure 3: Safe and secure because there is no electric shock even if a person touches



**600W**

**Wireless charging system**

**Wide Variety**

**Various lead, Li battery compatible!!**

**12V · 24V · 48 V**

**Corresponds to two types of communication distance!!**

**0...20mm · 20...40mm**

**Benefits**

**expected after introducing**



### Trouble is

- ▼ Clean the electrodes regularly to avoid problems
- ▼ There are frequent stop problems for small charging due to AGV false start.
- ▼ Insufficient battery charge.
- ▼ There will be a time loss because the charger is installed outside the line.
- ▼ It is difficult to change the layout in the factory.

- There is no electrical contact and maintenance of the electrode part is unnecessary!
- No need to worry even with a false strat. No trouble with short stops.
- Easy to add charge station to stop point. Even if the line becomes full production, it can respond immediately!
- The charging station can be set up anywhere you want!

# ◆ 600W wireless charging system ◆

**600W** Maximum output sensor

## Recommendations

### ● Battery-friendly CC / CV charge

The constant current/voltage (CC · CV) Charging control function enables optimum charging for battery..

### ● Easy setting Quick installation

The current AGV and battery can be used as is and can be easily retrofitted.

### ● Monitor battery temperature Safe and Secure

It monitors the battery temperature and stops charging when the temperature rises above a certain level, so it is safe and secure.

### ● Good for small size, low floor type AGV

Because the head is a small unit, it is compatible with various AGVs, including small and low floor types.

Moreover,  
it is strong in the axis deviation!



Power Supply unit RSC600-AC

Charging unit: 12V RSC600-CA12  
24V RSC600-CA24  
48V RSC600-CA48

#### Standard

Receiving head RSC600-CH Transmission distance max.20mm  
Active Head RSC600-AH Center offset max.±15mm

#### Long distance

Receiving head RSC600-CH-L Transmission distance max.40mm  
Active Head RSC600-AH-L Center offset max.±20mm

## ◆ Want to try a free simulation? ◆

# Attach a current logger to your AGV and measure the current by consumption.

~ Steps to submit charging simulation ~

### 1. Simulation confirmation items

- ① Check Battery model and battery capacity
- ② Confirm running/stopping time ※ Running time/stop time per cycle
- ③ Confirm consumption current  
Running, stopping and resting time and each current consumptions.
- ④ Can you charge while paused? Does it stop without charging?
- ⑤ Operating hours per day  
Confirm the operation status of AGV at the time of starting/ending/  
lunch break/immediate and whole day

### 2. AGV current consumption measurement

We will measure the current consumption using the current measurement logger with the AGV under consideration.



Current measurement logger

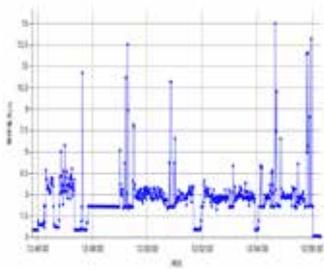


Attach current measurement logger to battery

### 3. Simulation report

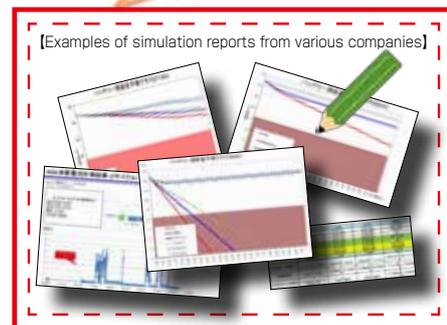
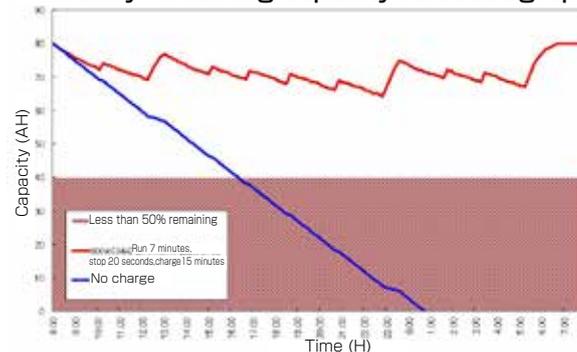
Report the results immediately with our special simulation software! A report can be submitted in about one week!

Based on the simulation results,  
we will propose the most appropriate  
charging system from our lineup!



Current consumption graph

### Battery remaining capacity forecast graph



Wireless power supply by  
**B&PLUS**  
<http://www.b-plus-kk.com/usa/>

about  
the products



request for  
simulation



for  
inquiries



We are here to support you.

\* Info may change the mention contents such as specifications without a notice.  
Thank you for understanding  
\* Please refer to instruction manual or the user's guide. It can be download by HP.