

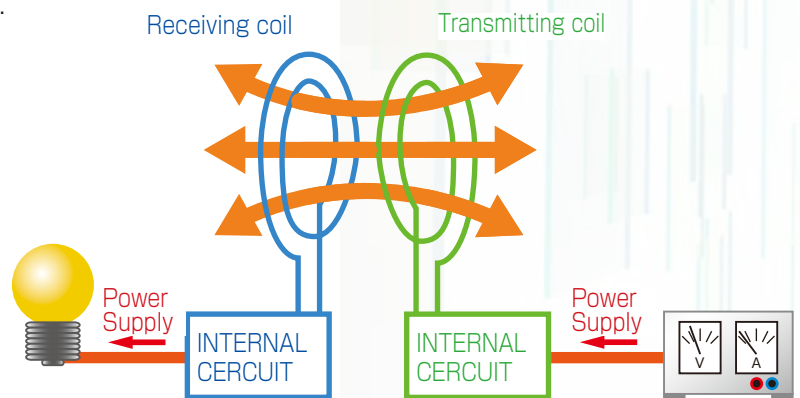
B&Plus, we support and realize a Wireless Power Supply!

What is Wireless Power Supply?



Metal is not only the option to carry electricity!

Wireless Power supply is the future technology that can be carry in the space.



What is B&PLUS?

We are a Wireless Power Supply Company that have been continuing to develop, produce and sell for more than 30 years.

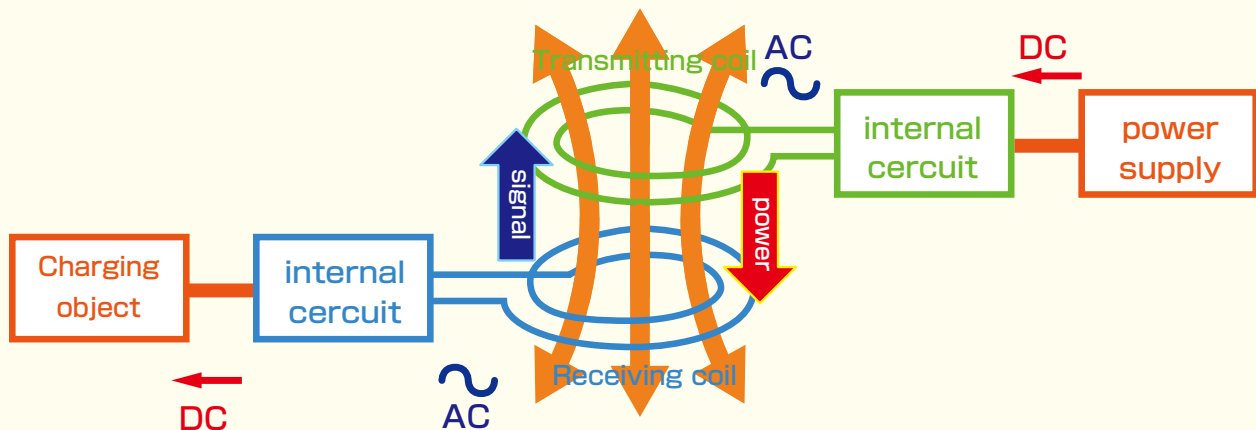
Aiming for World No.1 in the wireless power supply. We have been proven for high technology and continuing to increase the variety of the product line up.



Not only our wireless feeding technology but also the integration design of the Qi standard and support realization of the wireless feeding to the customers.

B&PLUS Wireless charging system

Wireless power supply system



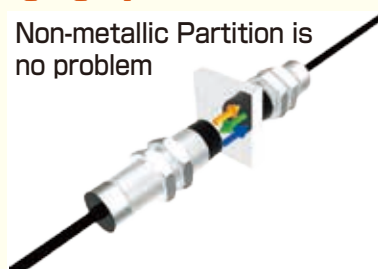
Our Wireless Power Supply is an inductive coupling method. The electricity of direct current input into the transmission department is converted into interchange magnetic force by going along the internal circuit and coil, and the electricity magnetic force is an anti-opposite side receives and reach the coil of the electric part. Interchange magnetic force realizes wireless feeding in what is converted into electricity of the direct

Advantage of the Wireless charging system

Simultaneous feeds and transmit signals.



Non-metallic Partition is no problem



Waterproof



Protection class; IP 67

Comparison with other methods

	Transmitted power	Size	Frequency band	condition			Dis- tance	Supply efficiency	Simultaneous Communica- tion
				Partition	Noise	Dirt			
Wireless Power Supply (Electromagnetic induction)	0.06 ~ 1KW	φ 12 ~	less than 100KHz	○	◎	◎	△	◎	◎
Resonance method	less than 10KW	□ 50cm ~	LF ~ HF band	○	△	◎	◎	△	△
Microwave wireless	1KW	□ 10cm ~	Microwave band	×	○	×	◎	×	△

About Qi standard

【 What is Qi Standard...? 】

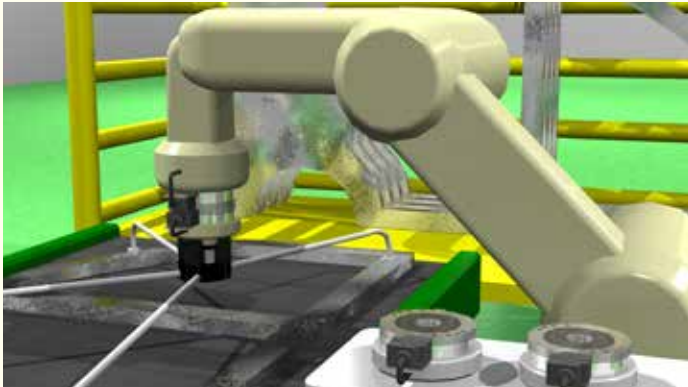
Wireless Power Supply that is the standard of the WPC(Wireless Power Consortium) and in accordance with the Qi Standards products. It can be used in different maker as long as the Qi Standard meets each products. Correspondence with charging up to 15W as of December, 2015

B&PLUS became a member of WPC from 2016.

	B&PLUS	Qi Standard
Capacity	0.06W ~ 1KW	0.06W ~ 15W
Transmission range	~ 26mm	~ 7mm
Feeding system	Electromagnetic coupling type	Electromagnetic coupling type
Communication	Feeding control, charge control, various outside communication	Only feeding control

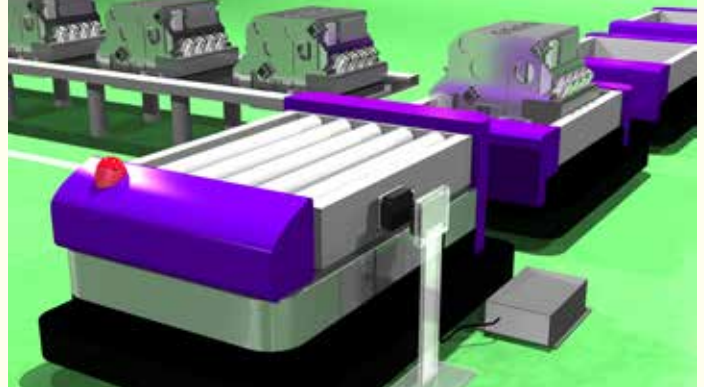
Results of Wireless Power Supply

Grasp confirmation of the robot hand



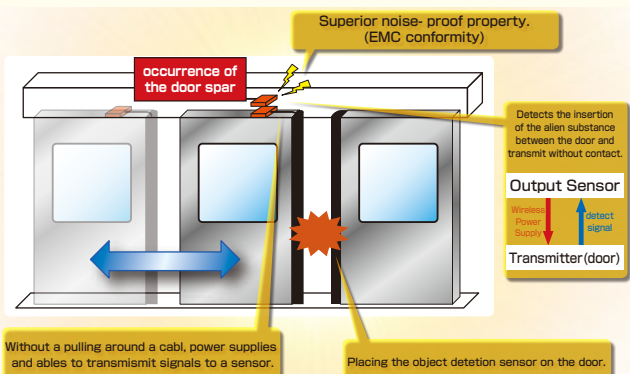
The small shape that is most suitable for a tool changer!

Charging to AGV battery wirelessly.



Correspondents 30 ~ 210W Smooth charging is possible!

Door spar alien substance detection system



Detects the insertion of the alien substance between the door and transmit it by non-contact!

Wireless charge to a duck robot



Anticipated in duck (organic) agricultural methods!

Technique and the results that cultivated in an FA market

Our Wireless Power Supply technology have been used all over the world. At the factory of the major automaker. And even at the severe environment, it has been stable movement for a long term. It is wide, and there are many achievement all over the world.

■□■ The reason why a major automaker choose our technology? ■□■

Solve the cable trouble



Improvement of the disconnection by the steering of the cable.

Solve of the connector trouble



Improvement of the poor contact by pin breaking or contact deterioration.

Reduction of the cost



Reduce the maintenance cost at the time of the trouble.

■□■ The development and the production of B&PLUS system ■□■

1,000 number of the development system Development results



Technology and know-how for over 30 years.



EMC facilities in the company.

Production facilities Correspondence in small quantity, large variety.



Highly precise coil winding machine



Board design & mounting machine

Wireless power supply examination request sheet

Please feel free to contact.

Sales department and marketing will support your request and needs.

Application being considered.		Automatic feeding to a robot	
Specifications request	Method Chose one	Charging	Supply
	When charging Chose one	Lithium	Lead
	Manufacturer of the battery and Specification	○○ electric equipment company XX examination.	
	Power Supply	30W or 24V/1.5A	
	Transmission distance and axis gap	Distance 15mm, center offset +-5mm	
	Signal type, point, speed	signal of charge control, etc	
Operating environment		Please fill out if there are concerns about the ambient temperature, water, oil, vibration, and mechanical shock.	
Other requests and questions			

Contact

Name	Company name	Contact information (Cell phone)	E-mail

Wireless Power Supply by
B & PLUS K.K.

Mail : b-plus-usa@b-plus-kk.com

Web : <http://www.b-plus-kk.com>



* Infor may change the mention contents such as specifications without a notice.
Thank you for understanding