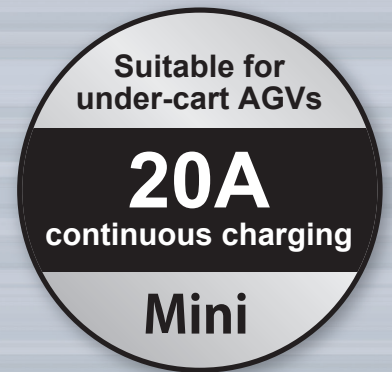




Wireless Power Transfer System for Charging Automatic Guided Vehicles (AGV)

D Broad



Smallest product in line-up

20A power transfer, size reduced to less than a half.

Robust to mis-alignment

Coil gap up to 40mm is OK. Stable charging even when gap width changes.

Easy installation and relocation

Quick, simple setup.

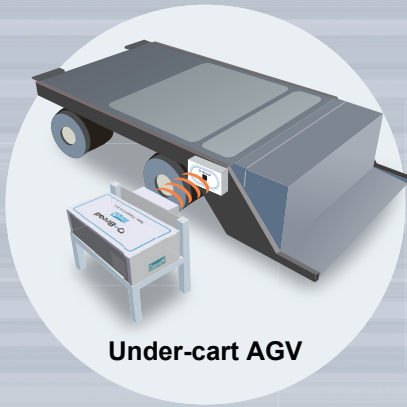


Installation Samples

High-efficiency wireless power transfer system can be mounted on all types of AGVs (Automatic Guided Vehicles) *Charging times and distances are the assumption.

Runs 100m with
43seconds charge

Power consumption 4A



Under-cart AGV

Runs 100m with
47seconds charge

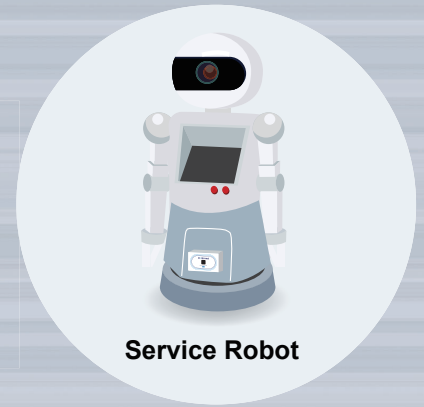
Power consumption 5A



Small guide-less
Auto Vehicle

Runs 100m with
47seconds charge

Power consumption 5A



Service Robot

Specifications

D-Broad Mini		
Common to all units	Distance between the power transmitting and power receiving coil units	30mm ± 10mm (1.2" ± 0.4") Charging current does not change even if the distance changes
	AGV stop position misalignment allowable range (in the traveling direction)	Charging current does not change even if the position deviates by ± 10mm (± 0.4")
	Operating temperature range	0-40°C
	Operating humidity range	20-80% (No dew condensation)
	Storage temperature range	-20-55°C
	Storage humidity range	20-80% (No dew condensation)
	maintenance cycle	7 years (Aluminum electrolytic capacitor, fan, semiconductor parts)
Power transmitting unit	Number of phases	Single-phase
	Rated input frequency	50/60Hz
	Rated input voltage	200/230V±10%
	Rated input power	1.0kW
	Required power supply capacity	1.1kVA
Power transmitting coil unit	Weight	Approx. 5kg
	External dimensions (W×D×H)	340x230x150mm (Excluding protrusions)
	Weight	Approx. 2kg
Power receiving unit	Maximum charging voltage	30V
	Maximum current	20A
	Weight	Approx. 1.6kg
Power receiving coil unit	External dimensions (W×D×H)	145x135x80mm (Excluding protrusions)
	Weight	Approx. 1.5kg
Power receiving coil unit	External dimensions (W×D×H)	170x45x100mm (Excluding protrusions)

*Product specifications and design are subject to change without prior notice.

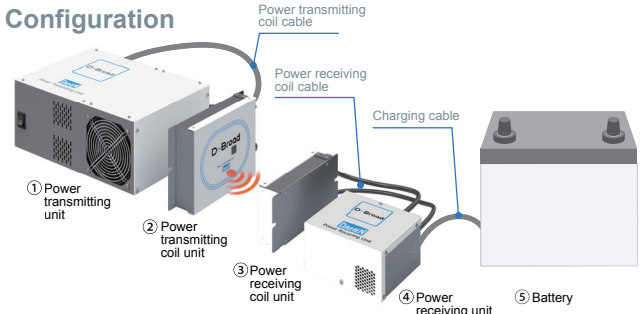
⚠️ Precaution for Use

- Use this system in places where not contacted by water.
- Use this system in places where not exposed to direct sunlight.
- Do not place metallic objects between the power transmitting and receiving coils.
- Use the system as a complete set. (This product cannot be combined with wireless power transfer systems of other manufacturers.)
- Permission is required for installation because this equipment uses high frequencies (when installed in Japan).

Options

Cable	Line up	Notes
Power transmitting coil cable	(2m optional cable) * 1m cable included as standard	(① Power transmitting unit ↔ ② Power transmitting coil unit)
Power receiving coil cable		(③ Power receiving coil unit ↔ ④ Power receiving unit)
Charging cable	Round terminals M6 (1m,2m)	(④ Power receiving unit ↔ ⑤ Battery)
	Round terminals M8 (1m,2m)	
	D1 plug connector (1m,2m)	
	SB50 connector (1m)	

Configuration



- ① Power transmitting unit 1 unit
- ② Power transmitting coil unit 1 unit
(includes 1m cable for connecting to power transmitting unit)
- ③ Power receiving coil unit 1 unit
(includes 1m cable for connecting to power receiving unit)
- ④ Power receiving unit 1 unit

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