

## Brushless Motor and Driver Package DC Power Supply Input, High Power **BLV Series**

Standard Type/Electromagnetic Brake Type



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### Case Scenario



Customer

Hello. I have a new concept to create a transfer load mechanism by utilizing an AGV car.

Yes, Nowadays, the market trend is changing from conveyors to AGV cars.

Does Oriental Motor carry such a product that supports this new AGV car trend?

Of course!, Our BLH and BLV series are DC Brushless motors with high speed and stable torque that can be used for many type of AGV car.



Oriental Motor Sales Executive



**BLV Series**



**BLH Series**

The Series & Size will depend on the AGV design. We provide brushless motor outputs from 15 Watt up to 400 Watt. On top of that, BLV series comes with an electromagnetic brake type option for a safe AGV system.

Oriental Motor has an extensive line-up for AGV systems, but how about the control?

The motor can be easily programmable for logic AGV controls system.

- 1) The motor can be controlled by PLC.
- 2) The speed can be adjusted by external DC voltage 0-5VDC and BLV series can be controlled by I/O and also RS485.

Please refer to below diagram for BLH and BLV series.

Series Brushless motor	BLH				BLV	
Output Power	15W	30W	50W	100W	200W	400W
Frame size	42mm	60mm	80mm	90mm	104mm	
Power supply voltage	24 VDC				48VDC	
Electromagnetic brake					•	•
Gearhead type	Parallel shaft	•	•	•	•	•
	Hollow shaft		•	•	•	•
Max speed	3000 RPM				4000 RPM	
Speed adjust method	External DC 0-5 VDC					
	Potential meter					
	I/O or RS485					

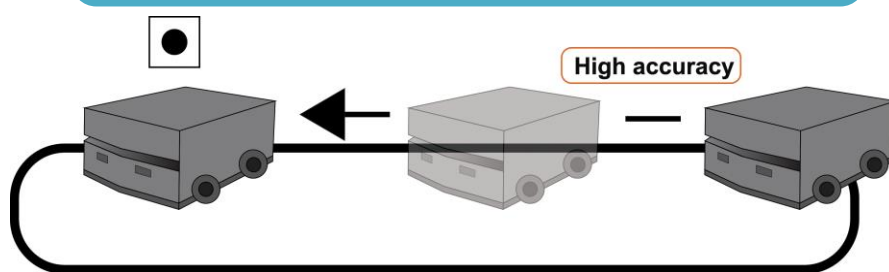
What if I need to control the position of the AGV car?  
Or if I have an additional axis on the AGV car that requires high accuracy?

If you require high accuracy. we would like to recommend our stepping motor using I/O control. The repetitive stopping accuracy is 0.02mm/0.05°

Can you elaborate on the I/O control portion?

Basically, we have 2 types of Stepping Motor Drivers:  
1. Pulse input type that requires a PLC/Pulse Generator to generate pulse to drive the motor.  
2. Built in controller type, where you can store data, speed, position and then using I/O to trigger each parameter.

I would like to recommend our CRK, AR, and AZ series which could be controlled via I/O through a 24VDC supply.



Thank you for this information! And it would be great if my engineers could learn more about your products.

Of course! We could arrange to do a demo at your place, and even conduct an On-Site Seminar / Roadshow to showcase our products.

Sure, let me plan my schedule then!

### Advantages of using OM brushless DC motor in AGV cars

- ▶ High speed with stable torque
  - ▶ Multi-motor Synchronous speed\*
  - ▶ Variable power supply for 24VDC and 48VDC
  - ▶ Hollow shaft flat gearhead type available
  - ▶ Safety system for AVG car with electromagnetic brake type
- \* Variable control system, external DC voltage, I/O controls and also RS485.

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