

# Motor driver w/ Regenerative brake RB series

Coreless Motor Co.,Ltd



Presentation



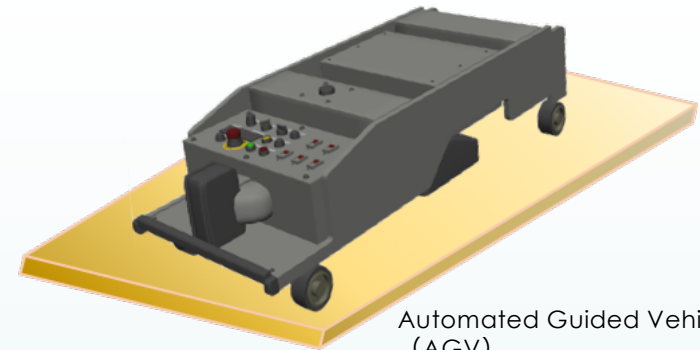


## What is regenerative braking?

- ▶ A regenerative brake normally converts electrical energy into mechanical energy through an electric motor and uses it as driving force.
- ▶ On the contrary, mechanical energy is input to the electric motor and used as a generator to generate electrical energy. One of the electric braking methods used as braking by converting and recovering or consuming.
- ▶ “RB” of RB series stands for “Regenerative Brake”

## Main application

- ▶ For downhill speed control
  - ▶ Maintain a constant uphill, flat, and downhill speed for automated guided vehicles.
- ▶ For lowering the lifting devices
  - ▶ Keep the descent speed constant regardless of the weight of the load on the electric forklift.
  - ▶ The descent speed kept constant regardless of the weight of the AGV lifting function.
- ▶ Others :
  - ▶ Rewinding the spring
  - ▶ Electric trolley downhill
  - ▶ Down stairs



Automated Guided Vehicle (AGV)



Electric forklift



## The difference from servo driver

### ► Merits

- Much cheaper
- Easy to use
- Encoder is not necessary
- No need to adjust such as debugging
- Programming is not necessary

### ► Demerits

- Inaccurate position accuracy cannot be controlled
- Stopped braking cannot be controlled
- Can't control when low speed



## Other merits of RB series

- ✓ Same size with ST series
- ✓ Adjusted for coreless motors
- ✓ Equipped new functions
  - ✓ Download for more detail information!

