

RCB Steering Gear

The Electro RCB steering system offers innovative all-electric power steering for commercial vehicles. Its efficient ball screw transmission features self-locking, ensuring stability of the vehicle wheels when the driver is not steering, preventing unintentional directional changes. Fleet operators and manufacturers seeking advanced technology should prioritize the eRCB steering system.



- Allows ADAS and autonomous driving
- Reduced noise and rattles
- Speed-dependent steering assistance
- Supports CAN/CANFD interface
- Complies with ASIL-D functional safety
- Offers OTA upgrades

Our offerings

Type	Driving Force	Output Angle	Total Turn Numbers	Operating Voltage Range	Rated Motor Speed	Rated Motor Torque	Application
RCB Gear - EPS	20.5 : 1	±42°	5.2	DC 12 V/24 V	1050 RPM	6 Nm/8 Nm	Light truck/medium bus/mini bus
	20 : 01	±45°	5	DC 12 V/24 V	1050 RPM	3.2 Nm	
RCB Gear - EHPS	(21.64-24.67) : 1	±47°	6.15	DC 24 V±20%	1800 RPM / 1000 RPM	4 Nm/7.98 Nm	Medium and heavy trucks/buses

For specific product details or OEM solution discussion, kindly reach out to us.

- **Reduced Noise and Rattles**

Compact structure, reliable, high stability, high safety, energy saving and environmental protection.

- **Active Return Control**

The controller is able to collect the steering wheel angle, and by controlling the motor, it can realize the active return control.

- **Emergency Steering Available**

In the event of hydraulic assist failure, the electric motor provides full power assist temporarily to help stop the vehicle safely.

- **High Temperature Resistance**

With new oil seal materials, the system can withstand temperatures up to 135 °C, withstand peaks of 150 °C, and function effectively at -40 °C.

- **No Hydraulic Fluid, No Leaks**

The electric power RCB steering system eliminates hydraulic fluid use, preventing leaks and reducing environmental impact.