

# Eddy Current Separator



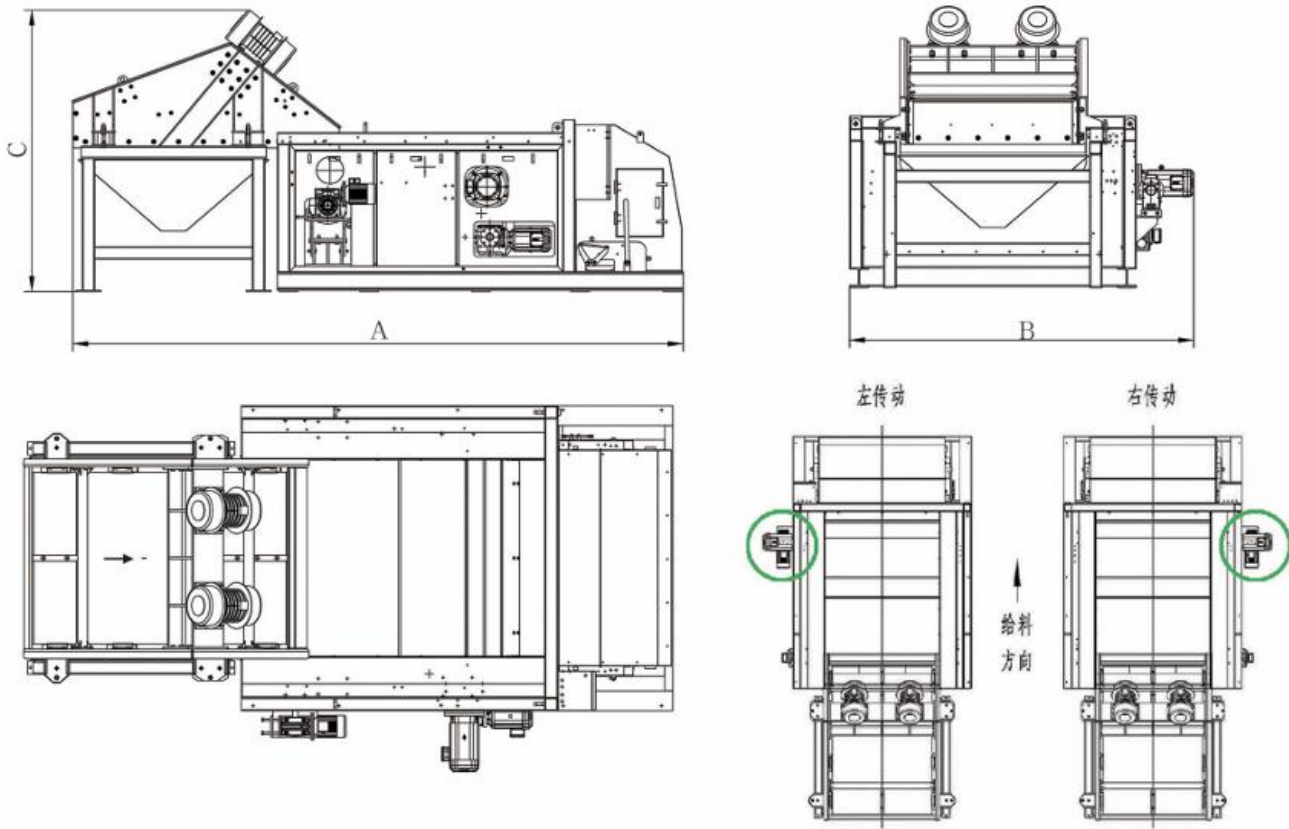
## How it works

**The eddy current separator** comprises a magnetic roller, conveyor belt, driving roller, and main frame. As the magnetic roller rotates at high speed, it generates a high-frequency alternating magnetic field, inducing eddy currents within non-ferrous metals. These eddy currents, in turn, produce a secondary magnetic field that opposes the original field. As a result, the opposing forces cause the non-ferrous metals to be repelled and ejected from the conveyor belt, effectively achieving separation.

## Products Parameters

|                   |                  |                             |         |
|-------------------|------------------|-----------------------------|---------|
| Effective Width   | 1500mm           | Magnetic Roller Motor Power | 5.5kW   |
| Capacity          | 15 t/h           | Belt Motor Power            | 3kW     |
| Overall Dimension | 5000*2700*2150mm | Feed Motor Power            | 2*1.5kW |
| Weight            | 4526kg           |                             |         |

## Products Outline



## Technical Advantages

- **Eccentric Magnetic Roller:** Prevents belt wear from magnetic particles, extending service life.
- **Sealed Magnetic System:** Industry-leading metal recovery rate with zero magnetic leakage.
- **Optimized Belt Inclination:** Minimizes non-ferrous metal rebound for efficient separation.
- **Intelligent Lubrication:** Automatic oil filling ensures long-term, stable bearing operation.
- **Real-Time Monitoring & Alarms:** Comprehensive protection for key components.
- **Smart Touch Control:** One-button operation with real-time performance feedback.

## Application

### Applicable to:

- Glass recycling and sorting system
- Scrap steel crushing tailings sorting
- Domestic waste sorting system

