

UNIT EXCHANGE: BRAKES

Take a “**BRAKE**” from costly downtime and lost production by participating in the **Winkle Industries Brake Exchange Program**. Winkle Industries will guarantee increased productivity and improved efficiency that will lower your associated operating costs!

Winkle Industries understands that time is of the essence when a crane brake failure occurs. In an effort to provide the highest level of support and service to our customers, **Winkle Industries** has offered and successfully secured “**Brake Exchange Programs**” with various steel mills. Each program can be exclusively tailored and uniquely designed to meet your specific requirements.

Program Features and Benefits:

- Extensive inventory of brakes available. *All* models and types of industrial brakes (AC and DC) ranging in size from 4” to 30”, with shunt or series coils.
- Options for brake shoes, brake coils and brake wheels.
- Competitive and fixed pricing for participants in the exchange program.
- No up front costs. We provide the initial brakes to kick off the exchange program.
- Reduced inventory expenses. Our vast inventory of completed brakes is available for immediate shipment. We stock brakes so you don't have to.
- All factory exchange brakes meet or exceed OEM specifications and carry a 1-year warranty.
- Pick-up and Delivery. Simply call us with the necessary brake data and we will take care of the rest.

Data Required for Unit Exchange:

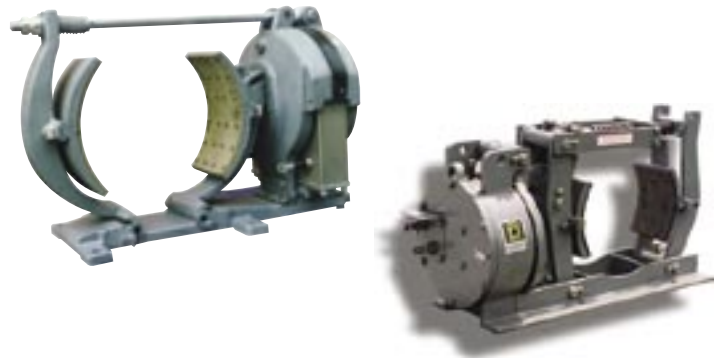
When contacting Winkle Industries to arrange for a unit exchange, the following information is required:

- Brake Size
- Brake Manufacturer
- Coil Number and/or Motor Data, whichever is available
- Application (i.e. trolley, hoist, bridge)

Once this data has been obtained, we will arrange to have a unit meeting the necessary criteria shipped to your operation. Arrangements will also be made to pick-up the exchange unit for return to our facility.

Brake Selection:

When choosing a brake for your application, the formula noted at right will be adequate for most types of service. For hoist and other applications requiring a high level of safety, please contact Winkle Industries and one of our knowledgeable engineers will assist you in the selection process.



Coil Selection:

Shunt Coil selection is based on the DC voltage supply to the brake and the brake duty cycle.

Series Coil selection is based on the full load current and the duty cycle of the motor.

Our extensive knowledge includes every aspect of industrial brake assemblies, coils, and related parts for all original equipment manufacturers. Please call the factory or one of our trained sales engineers for additional information or assistance.

Brake Size Selection Formula:

$$T = \frac{5252 \times \text{HP}}{\text{RPM}}$$

T = Torque

HP = Horsepower

RPM = Revolutions per minute

Information required for Coil selection:

Shunt Coil:

DC voltage supply to the brake and the brake duty cycle.

Series Coil:

Full load current and duty cycle of the motor.