

Wrap Spring Product Line

CB Series



Clutch/Brake Package

Each CB Series unit is a completely self-contained, packaged clutch/brake assembly designed to start and stop a load rapidly and accurately without any cumulative error. In fact, at speeds up to 1800 rpm, loads are started and stopped within $\pm 1/2^\circ$ per revolution. CB Series units are solenoid actuated with standard models available in 12, 24, or 90 VDC as well as 115 VAC configurations.

Accurate

Start and stop positioning can be maintained within $\pm 1/2^\circ$ at speeds up to 1800 rpm. The stop point is adjustable by using the adjustable control collar.

Self-Contained

Each CB Series unit is completely self-contained. Assembly and testing before shipment ensure reliable and trouble-free operation.

Interchangeability

The CB Series is completely interchangeable with other comparable clutch/brake packages.

Features

- ☐ CW or CCW rotation
- ☐ Anti-back: anti-overflow feature
- ☐ 12, 24 or 90 VDC, 115 VAC operation
- ☐ 1, 2 or 4 stop collars standard; special stop collars also available (up to 24 stops)
- ☐ Adjustable stop collar
- ☐ Six standard sizes
- ☐ Torque ratings from 25 lb.in. to 5000 lb.in.

SCB Series



Long Life Clutch/Brake

The Super CB Series is a high performance version of the standard CB Series, providing up to five times the life. The SCB Series is recommended for heavy-duty applications requiring maximum torque, high cycle rates and minimum maintenance. Like the CB Series, each Super CB Series unit is a complete, factory-assembled package, ready for installation.

Features

- ☐ Heavy duty design
- ☐ High cycle rate performance
- ☐ Long life - up to five times that of a standard CB model
- ☐ Three standard models
- ☐ Torque ratings up to 5000 lb.in.
- ☐ CW or CCW rotation
- ☐ Anti-back: anti-overflow feature
- ☐ 12, 24, 90 VDC or 115 VAC operation
- ☐ 1, 2 or 4 stop collars standard; special stop collars also available (up to 24 stops)
- ☐ Adjustable stop collars

WSC Series



Wrap Spring Clutches

WSC Series clutches are simple, mechanically actuated devices providing high torque in a compact design. Specific models are available for use as an overrunning/one-way clutch (Model O), as a start/coast-to-stop clutch (Model SS), or as a single revolution clutch (Model S).

Overrunning/One-Way (Model O)

This clutch continually drives the load. The load is allowed to overrun the input, should its speed exceed input speed. In the reverse direction the unit acts as a one-way clutch, preventing the load from backing up.

Start/Coast-To-Stop (Model SS)

The start/stop clutch is engaged until the collar that contains the spring tang is disengaged. Once it is stopped, the load is disengaged and coasts to a stop.

Start/Stop – Single Revolution (Model S)

Attaching one end of the spring to the output hub results in a single revolution clutch. The load is stopped through the spring to the collar. Precise non-cumulative error single revolution cycling is achieved. Braking torque equals 10% of the maximum torque rating.

Features

- ☐ Five standard sizes
- ☐ Torque ratings from 25 lb.in. to 2500 lb.in.
- ☐ Hub or shaft input
- ☐ Multiple stop collars
- ☐ Over-travel stop
- ☐ Anti-overflow
- ☐ Adjustable stop feature