

## Electric Brake Solutions for Electric Equipment Applications



# Warner Electric Brake Solutions Provide Reliable Performance On Battery-Powered Equipment

The rapidly growing demand for compact, battery-powered construction and agriculture equipment has created a highly competitive market environment for OEMs. Warner Electric, a global leader in electromagnetic brake technologies, is uniquely positioned to support equipment design engineers as they meet these application challenges.

## REDUCED POWER CONSUMPTION FOR INCREASED OPERATING TIME

Warner Electric offers innovative braking solutions designed to reduce power consumption on a wide variety of motions for battery-powered construction equipment, including electric swing drives and electric track drives for loaders, dozers, and excavators, traction wheel motors on compact skid steers, wheeled excavators, dump vehicles and mobile elevating work platforms (MEWPs). Warner braking technologies are also ideal for many agriculture applications, including autonomous machines and small electrically driven equipment.

Highly experienced Warner Electric application engineers routinely work with OEM engineering teams to develop compact, energy efficient braking solutions to meet the requirements for specific equipment, whether it's for a completely new equipment design or the electric conversion of existing equipment.

## STANDARD PRODUCT OR CUSTOM SOLUTIONS

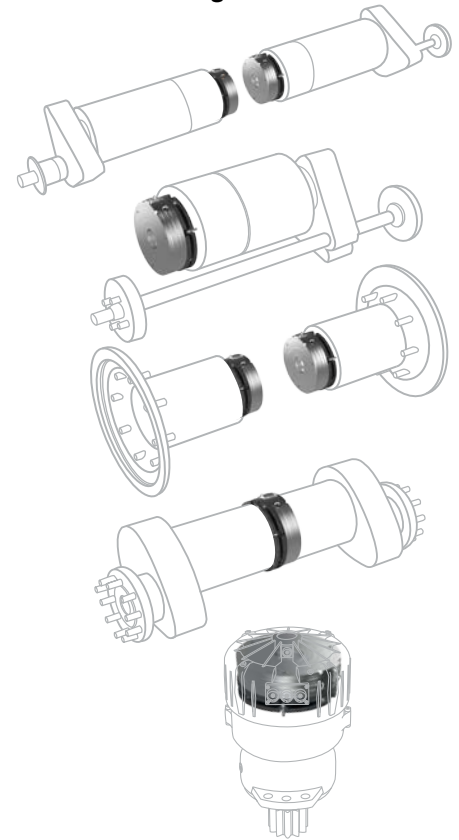
Utilizing existing, proven braking solutions, Warner engineers can quickly modify a standard brake design and ship prototypes to OEMs for testing. Warner Electric's ability to rapidly respond to a customer need saves valuable time and effort for busy OEM engineers while allowing them to focus on other critical equipment systems and components.

Whether a modified standard product or a completely new custom system solution is required, Warner Electric provides complete sales and engineering support to customers around the world, from the very first concept to the detailed planning, design variation phase and commissioning.

## GLOBAL MANUFACTURING FOOTPRINT

With manufacturing facilities strategically positioned around the world, Warner Electric can provide short lead times while meeting the demanding delivery requirements of global OEM production schedules.

### Braking Solutions for All Types of Drive Configurations



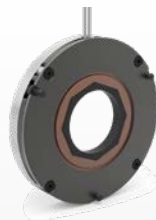
## Advanced Braking Technologies for Electric Equipment



### VERY THIN, POWERFUL AND PROVEN BRAKE DESIGN

**The Original PK Brake...High torque in a compact space envelope**

The Very Thin (PK) range is a pre-assembled on/off dry spring-applied electromagnetic brake. This brake is used for parking and emergency as well as some service braking.



### COMPACT STATIC BRAKE, THIN AND MODULAR

**Catalogue and thickness adaptive design for easy and flexible integration with parking brake functionality**

WR and other brake ranges are pre-assembled spring-applied, dry power-off electromagnetic brake. Models are highly reliable and compact for static engagement.



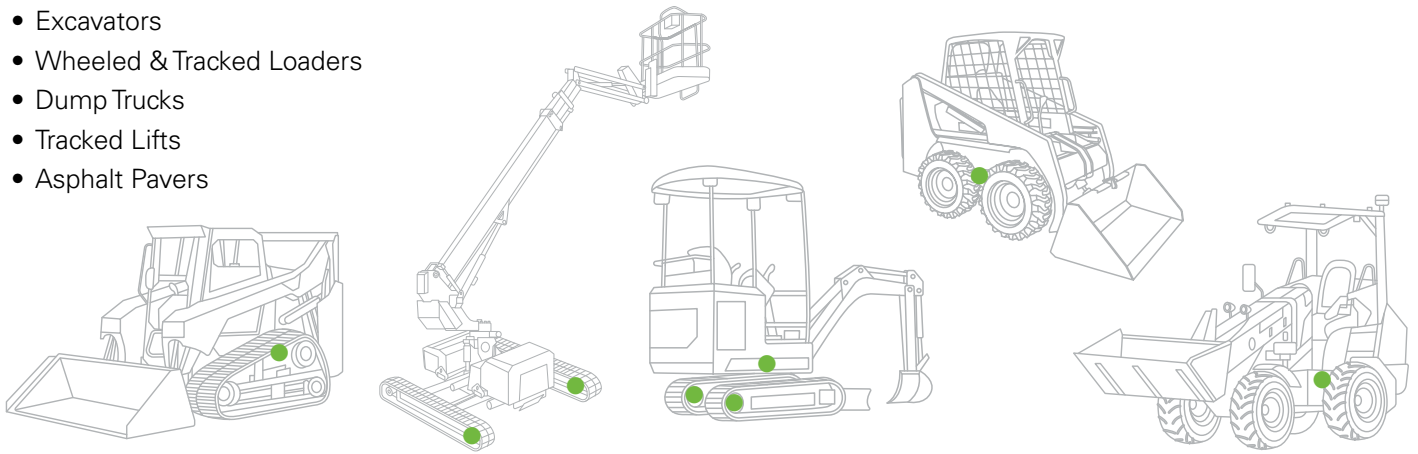
### HIGH DISSIPATING MOTOR BRAKE

**For dual drive E-vehicles with up to 8 tons (17,900 lbs.) capacity**

CBTB advanced high-speed, high-torque brakes provide reliable emergency and parking brake functionality and allow for increased maximum equipment speed and improved productivity.

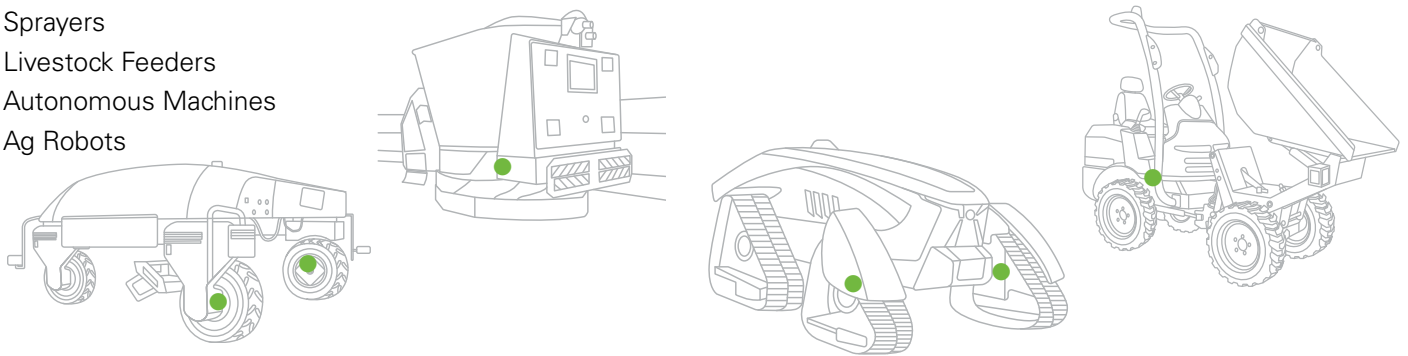
## ELECTRIC CONSTRUCTION EQUIPMENT

- Excavators
- Wheeled & Tracked Loaders
- Dump Trucks
- Tracked Lifts
- Asphalt Pavers



## ELECTRIC AG EQUIPMENT

- Sprayers
- Livestock Feeders
- Autonomous Machines
- Ag Robots



## OTHER ELECTRIC EQUIPMENT

- Robots (Firefighting, Surveillance, etc.)
- Shuttle buses
- Road Sweepers
- Weed Killing Vehicles



### CONVERT A STANDARD BRAKE INTO A SMART BRAKE

#### Flexible embedded controller features plug & play integration

Ideal for fleet management systems, particularly on EV applications, provides access to the auto-diagnosis brake component.



### ACCURATE SENSING IN A COMPACT DESIGN

The WES **contactless monitoring solution** provides reliable detection of the smallest strokes, especially on spring-applied brakes.

Units also feature real time wear detection. Made without sensitive mechanical parts, it greatly outperforms electromechanical solutions in functional safety and lifecycle expectancy high power density.



### ENHANCE PERFORMANCE WITH ADVANCED FRICTION MATERIALS

Regal Rexnord engineers have developed a proprietary **NON-STICK** friction material specifically designed for cold room and outdoor environments with high moisture levels and wide temperature differentials.



## Regal Rexnord

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