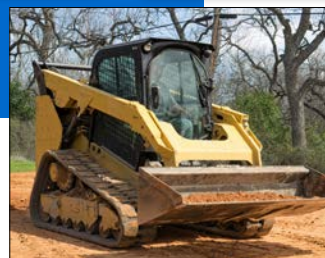
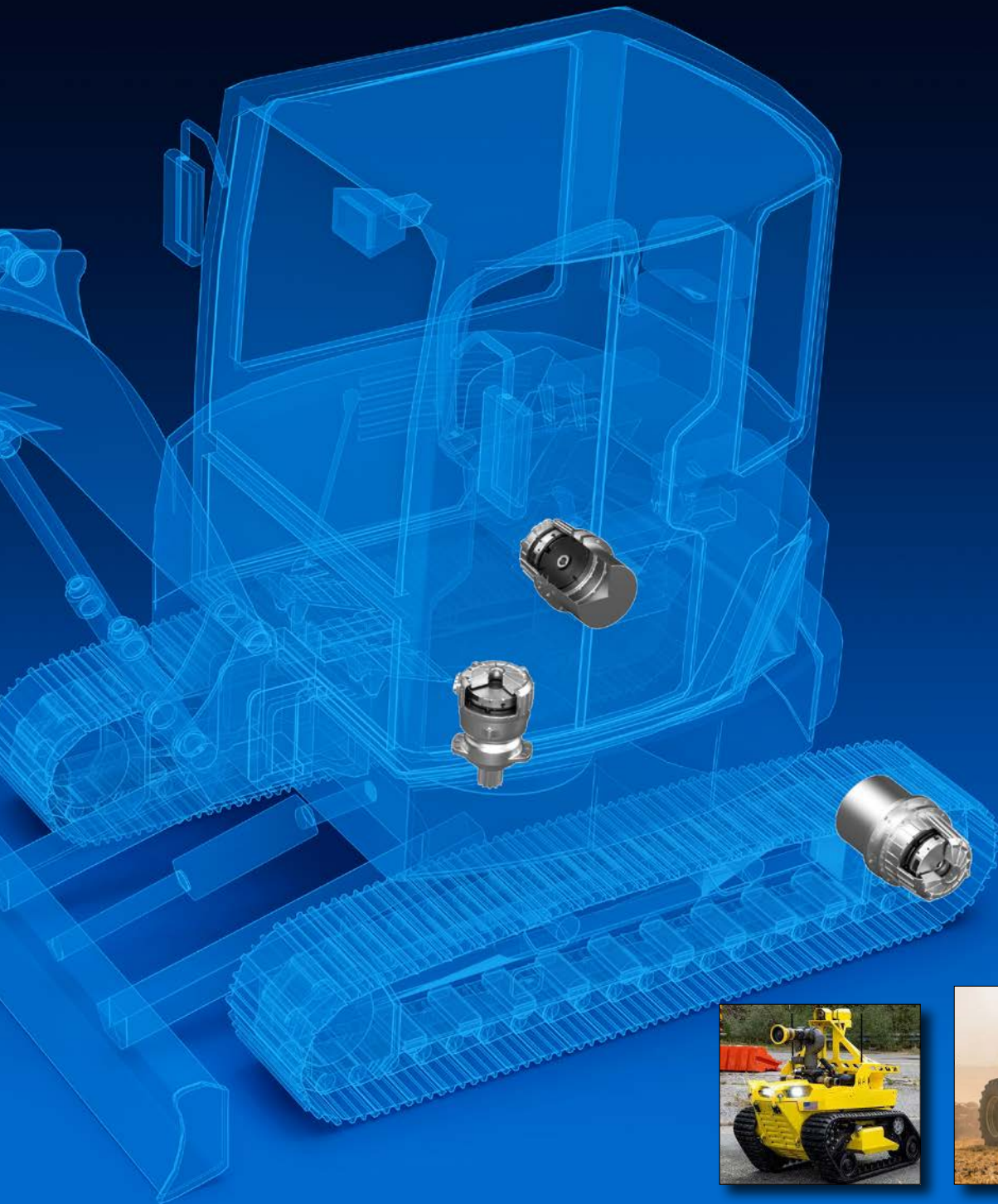


**Electric
Brake
Solutions
for
Electric
Equipment
Applications**



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

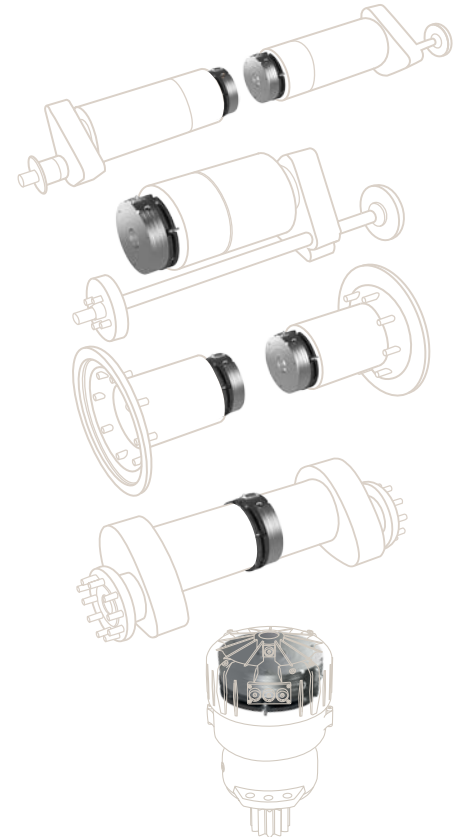
Utilizing existing, proven braking solutions, Warner engineers can quickly modify a standard brake design and ship prototypes to OEMs for testing. Warner Electric's ability to rapidly respond to a customer need saves valuable time and effort for busy OEM engineers while allowing them to focus on other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



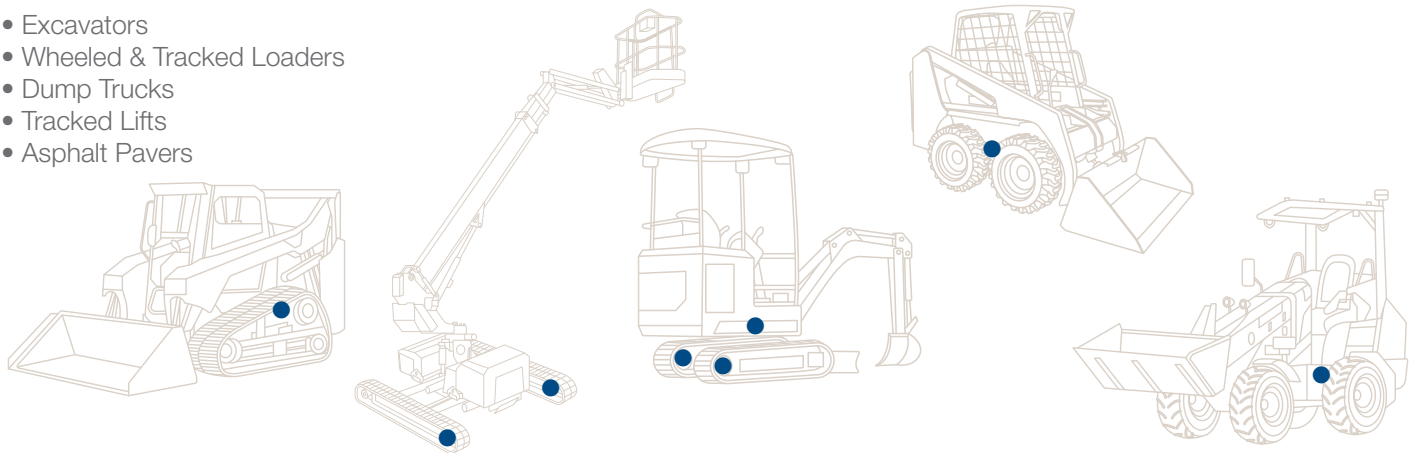
High dissipating motor brake

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.

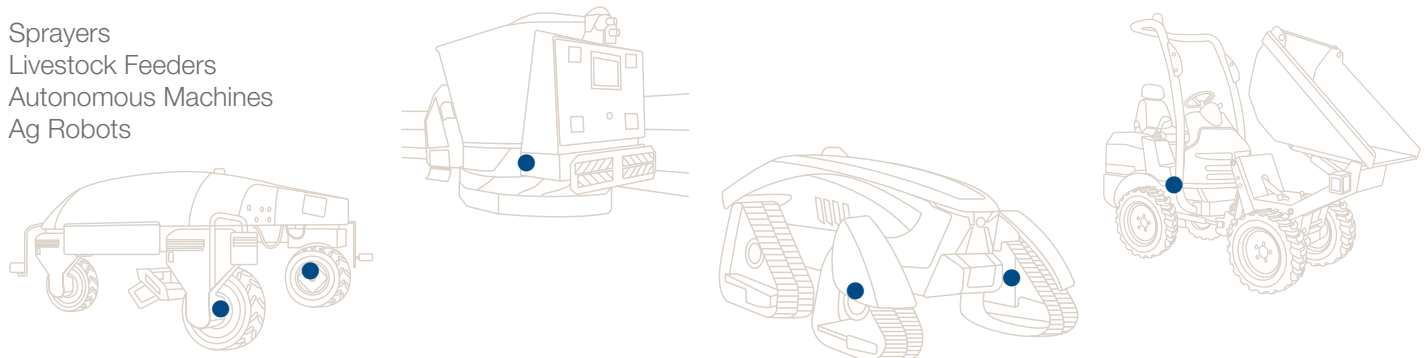
Electric Construction Equipment

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



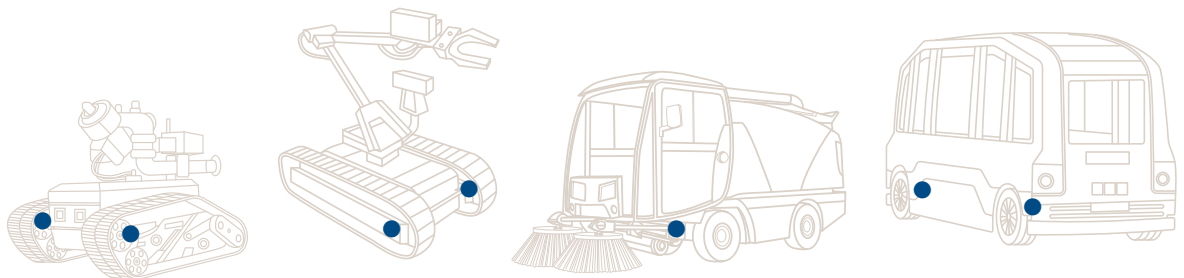
Electric Ag Equipment

- 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

Altra 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.

Warner Electric Facilities

North America

USA

31 Industrial Park Road
New Hartford, CT 06057 - USA
860-379-1252

*Electromagnetic Clutches
and Brakes*

449 Gardner Street
South Beloit, IL 61080 - USA
815-389-3771

4578 East Park 30 Drive
Columbia City, IN 46725 - USA
260-244-6183

*Precision Electric Coils and
Electromagnetic Clutches and
Brakes*

Customer Service

1-800-825-6544

Application Support

1-800-825-9050

Europe

France

7 rue de Champfleür - CS20095
49182 St Barthelemy d'Anjou - France
+33 (0)2 41 21 24 24

*Electromagnetic Clutches
and Brakes*

Customer Service

+33 (0)2 41 21 24 76

Application Support

+33 (0) 2 41 21 24 24

Asia Pacific

Australia

+61 2 9894 0133

China

+86 21 5169-9255

Hong Kong

+852 2615 9313

Singapore

+65 6487 4464

Taiwan

+886 2 2577 8156

Thailand

+66 2322 5527

The Brands of Altra Motion

Couplings

Ameridrives
www.ameridrives.com

Bibby Turboflex
www.bibbyturboflex.com

Guardian Couplings
www.guardiancouplings.com

Huco
www.huco.com

Lamiflex Couplings
www.lamiflexcouplings.com

Stromag
www.stromag.com

TB Wood's
www.tbwoods.com

Linear Systems

Thomson
www.thomsonlinear.com

Geared Cam Limit Switches

Stromag
www.stromag.com

Engineered Bearing Assemblies

Kilian
www.kilianbearings.com

Electric Clutches & Brakes

Matrix
www.matrix-international.com

Stromag
www.stromag.com

Warner Electric
www.warnerelectric.com

Belted Drives

TB Wood's
www.tbwoods.com

Heavy Duty Clutches & Brakes

Twiflex
www.twiflex.com

Stromag
www.stromag.com

Svendborg Brakes
www.svendborg-brakes.com

Wichita Clutch
www.wichitaclutch.com

Gearing & Specialty Components

Bauer Gear Motor
www.bauergears.com

Boston Gear
www.bostongear.com

Delevan
www.delevan.com

Delroyd Worm Gear
www.delroyd.com

Nuttall Gear
www.nuttallgear.com

Precision Motors & Automation

Kollmorgen
www.kollmorgen.com

Miniature Motors

Portescap
www.portescap.com

Overrunning Clutches

Formsprag Clutch
www.formsprag.com

Marland Clutch
www.marland.com

Stieber
www.stieberclutch.com

Neither the accuracy nor completeness of the information contained in this publication is guaranteed by the company and may be subject to change in its sole discretion. The operating and performance characteristics of these products may vary depending on the application, installation, operating conditions and environmental factors. The company's terms and conditions of sale can be viewed at <http://www.altramotion.com/terms-and-conditions/sales-terms-and-conditions>. These terms and conditions apply to any person who may buy, acquire or use a product referred to herein, including any person who buys from a licensed distributor of these branded products.

©2022 by Warner Electric LLC. All rights reserved. All trademarks in this publication are the sole and exclusive property of Warner Electric LLC or one of its affiliated companies.

