The Brands of Altra Motion

A Global Footprint to Support Customers Around the World

Altra Headquarters
Altra Engineering & Service Centers
Altra Manufacturing Facilities

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
Warner Linear
www.warnerlinear.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
Deltran
www.thomsonlinear.com

Belted Drives
TB Wood’s
www.tbwoods.com

Heavy Duty Clutches & Brakes
Twiflex
www.twi-flex.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

Engine Braking Systems
Jacobs Vehicle Systems
www.jacobsvehiclesystems.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

Power Transmission, Motion Control and Engine Braking Solutions
Altra is a leading global designer and producer of a wide range of electromechanical power transmission and motion control components and systems. Providing the essential control of equipment speed, torque, positioning, and other functions, Altra products can be used in nearly any machine, process or application involving motion. From engine braking systems for heavy duty trucks to precision motors embedded in medical robots to brakes used on offshore wind turbines, Altra has been serving customers around the world for decades.

Our products are marketed under a variety of well recognized and established brands which, on average, have been in existence for over 85 years. Each of our companies are committed to the guiding principles of the Altra Business System, with relentless focus on continuous improvement and customer satisfaction.
Altra’s Core Values

We win as aligned, capable, and engaged teams
We are committed to providing a secure workplace that develops and leverages the capabilities of our people and encourages their diversity of thought.

Customers inspire our innovation
We relentlessly seek to better understand our customers’ needs and create product and process innovations to help them differentiate.

Go and see is how we lead
We connect directly to the work; we solve problems and make decisions based on knowledge gained from direct process observation.

Continuous improvement is our way of life
We challenge ourselves and our partners to continuously improve as we seek to consistently outperform our competition and exceed our customers’ expectations.

We deliver exceptional value to our stakeholders, communities, and society
We gain our stakeholders’ trust by consistently delivering above-market returns while operating with the highest standards of integrity and engaging proactively to make our local communities better.

The Altra Business System

The Altra Business System is a framework of concepts and methods for driving sustainable competitive advantage. Focusing on a set of Core Value Drivers that reflect our priorities related to Customers, Shareholders, and Associates, we work ceaselessly to improve the flow of value to our customers. We do this by teaching our Associates to utilize a robust set of tools and processes to systematically identify and eliminate waste. This assures that we provide our Customers with innovative solutions at the shortest lead time, highest quality and best possible value. And this leads to consistent, above-market returns to our Shareholders and a work environment that fully stimulates and develops the capabilities of our Associates.
With sales, service, and manufacturing facilities in more than 20 different nations across five continents, combined with industry leading distribution channels, our expanding global presence allows us to provide exceptional customer service and support worldwide.

- Total coverage in over 70 countries
- 53 manufacturing locations worldwide
- Over 400 direct sales experts and 600 product & software engineers

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Altra Brands Deliver Value

Expertise in standard, modified and custom engineered products, backed by the most recognized brands in the power transmission motion control industry.

Altra’s five main product groups - clutches & brakes, couplings, gearing & specialty components, linear systems and precision motors, drives & controls are backed by over 25 of the industry’s leading brands. On average, our brands have been in operation for over 85 years. The industry knowledge and application expertise developed during this period enables us to deliver unique solutions tailored to meet the most rigorous customer demands.

A History of Successful Mergers and Acquisitions with a Proven Track Record of Consistent Growth

Industry leading brands uniquely positioned to drive innovation, accelerate growth and build value for customers. A premier industrial company driven by the relentless pursuit of continuous improvement and customer satisfaction.

2004
- Bibby Turboflex (1917)
- Huco (1965)
- Matrix (1939)
- Twiflex (1946)
- Warner Linear (2001)
- TB Wood’s (1857)

2006
- Ameridrives (1928)
- Boston Gear (1877)
- Delroyd Worm Gear (1923)
- Formsprag Clutch (1943)

2007
- Marland Clutch (1931)
- Nuttall Gear (1887)
- Stieber Clutch (1937)
- Warner Electric (1927)
- Wichita Clutch (1949)

2011
- Bauer Gear Motor (1927)

2012
- Svendborg Brakes (1884)
- Stromag (1932)

2013
- Lamiflex Couplings (1999)

2014
- Guardian Couplings (1941)

(Indicates Year Founded)
Altra Revenues

Delevan (1947)
Deltran (1973)
Jacobs Vehicle Systems (1961)
Portescap (1931)
Kollmorgen (1916)
Thomson (1940)

2018

$304 million
2004

$635 million
2008

$732 million
2012

$877 million
2017

$1.9 Billion
2018

*LTM

*Pro forma LTM revenues for the period ending June 30, 2018
Altra Motion

Electric Clutches & Brakes
- Brakes
- Clutches
- Clutch/Brake Assemblies
- Wrap Spring
- Micro Clutches
- Custom Engineered Products
- Disc Brakes
- Tension Control Brakes

Heavy Duty Clutches & Brakes
- Pneumatic Clutches & Brakes
- Hydraulic Clutches & Brakes
- Caliper Brakes
- Water Cooled Brakes
- Fluid Couplings
- Custom Engineered Products
- Thruster Drum Brakes
- Disc Brakes

Gear Drives & Gear Motors
- Worm Gear
- Concentric Helical
- Loosr Gearing
- High-Speed
- Parallel Shaft
- Torque Limiters
- Precision Gearheads
- Inline Helical
- Helical Bevel
- Shaft Mounted
- Aseptic Drive
- IE4 Geared Motors
- Helical Worm
- Right Angle

Engineered Couplings & Universal Joints
- HP Disc & Diaphragm
- Universal Joints
- Grid & Gear
- Elastomeric
- Precision
- Gear Spindles
- General Purpose
- Locking Devices
- Torque Limiters
- Engine Flywheel
Our comprehensive product offerings include various types of clutches and brakes, overrunning clutches, engineered bearing assemblies, gearing and gear motors along with linear motion products, belted drives, couplings, limit switches, precision motors, drives & controls, miniature motors and engine braking systems.

With thousands of product solutions available, Altra provides true single source convenience while meeting specific customer requirements. Many major OEMs and end users prefer Altra products as their No. 1 choice for performance and reliability.
Market Expertise

Our teams in the field are more than salespeople... they are experienced application specialists who understand your production process and challenges and can recommend the Altra solution to meet your specific requirements.

With over 1,000 associates in sales and marketing, our extensive industry knowledge encompasses virtually every major market.
### Elevators
- Commercial Elevators
- Industrial Elevators
- Residential Elevators
- Stair Lifts
- Escalators

### Factory Automation
- Precision Control & Safety Requirements
- Industry 4.0
- Internet of Things

### Farm & Agriculture
- Mowers
- Fan Drives
- Grain Handling & Drying Equipment
- Pumps
- Seeders & Sprayers
- Combines, Bailers & Harvesters

### Medical & Surgical Tools
- Powered Wheelchairs
- Scooters
- Surgical Tools
- X-Ray Tables
- Robotic/Precision Surgery
- Medical Pumps

### Metals Market
- Levelers
- Metal Fabrication
- Steel Slitters
- Steel Mill Roll Stands
- Cranes

### Mining & Aggregate
- Ball Mills
- Cement Kilns
- Mine Hoists
- Drag Lines
- Mining Shovels
- Conveyors

### Transportation
- Class 8 Trucks
- Automotive Seat Bearings
- Off-Road Vehicles
- Light Duty Rail Transmissions

### Turf & Garden
- Commercial Lawn Mowers
- Residential Lawn Mowers
- Golf Course Maintenance Equipment
- Utility Vehicles

### Water & Wastewater
- Cooling Towers
- Pumps
- Water Filtration
- Wastewater Treatment Facilities

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Warner Linear
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Geared Cam Limit Switches
Stromag
www.stromag.com

Engineered Bearing Assemblies
Killian
www.killianbearings.com

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