



▲ Innovating Motion



Distribución de componentes
eléctricos y electrónicos

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www.ermec.com

On any given day, and wherever you may be, there's probably a Johnson Electric motion solution right where you are – our motion solutions are in more than 300 applications globally.

1 out of 3 digital cameras
incorporate a motion subsystem by Johnson Electric

1 out of 4 drills
runs on a Johnson Electric motor

1 out of 4 coffee grinders
is powered by Johnson Electric

3 out of 4 postal sorters
in America have a Johnson Electric motion solution

4 out of 5 inkjet printers
have a Johnson Electric motion system

2 out of 5 cars
have features powered by many products from Johnson Electric

2 out of 5 hairdryers
run on a Johnson Electric motor,
4 out of 5 in America

1 out of 4 garden tools
is powered by a Johnson Electric motor

2 out of 5 vacuum cleaners
run on Johnson Electric motor

Founded in 1959, Johnson Electric pioneered manufacturing of high quality micromotors in Hong Kong. With rapid expansion, the Group has become a US\$2 billion global enterprise that is well positioned for further growth.

1959
Johnson Electric
was established

1959

JOHNSON ELECTRIC GROUP

SAIA-BURGESS

1920

1920
Saia AG
founded in
Bern (CH)



1930

1935
Burgess
Products Ltd founded
in Hinckley
(UK)

1936
Takeover of Saia
AG by Landis &
Gyr

Burgess

1940

1950

1952
Burgess switch
production transferred
to Gateshead (UK)

1953
1st production
of miniature synchronous
motors by
Saia AG

1960

1969
The 1st electro-mechanical
timers are launched
on the market by
Saia AG

1972
Established AC
motor business

1976
Established John-
son Electric in the
USA

1982
Started
production
in China

1984
Listed on HK
Stock Exchange

1988
Established
Johnson
Electric in Japan

**JOHNSON
GATE**

1995
ISO9002
accreditation
in China

1998
QS9000
certification

1999
Acquired Electric
Motor Systems
from Lear Corp

**JOHNSON
NIHON MINI**

**JOHNSON
NANOMOTION**

2000
Acquired motor
business of
Kautex Textron
and Arvin
Meritor's seat
motor business

2004
Acquired Nihon
Mini Motor

2004
Acquired
Nanomotion

saia-burgess

PARLEX

2005
Acquisition of
Saia-Burgess
(CH) and Parlex
Corp (USA)

saia
burgess
th>contact
BAR

**JOHNSON
MOTOR**

LEDEX
DORMEYER

1970 1980 1990 2000 2005 2007

Launched new
product brand
strategy for
motors, switches
and solenoids

1970

1979
Saia AG
launched the 1st
programmable
logic controller

1980

1987
Burgess Micro
Switch Co Ltd
takes over
Saia AG

1988
Set-up of Saia-
Burgess with 3
business areas –
Switches, Motors
& Electronic
Controllers

1990

1992
Factory opens
in Dresden for
motor production

1998
Acquisition of a
production and
of a marketing/
software develop-
ment company in
Hungary

1999
Acquisition of
Bär Electrowerke
GmbH, Halver (D)

2000

2000/2001
Acquisition of Le-
dex & Dormeyer
Group, Vandalia
(USA)

2002
Foundation of
the production
plant in Hatvan
(HU)

2002/2003
Acquisition
of TH-Contact,
Reinach (CH)

2003
Takeover of acti-
vities of Otehall
Switches Ltd.,
London (UK)

2004
Acquisition
of actuator
business for
auto HVAC from
Bühler Motor
Group, Cary
(USA)

2005
Foundation of
the production
plant in Dabrowa
Górnica (PL)

2005
Acquisition of CEI,
Springfield (USA)

The Johnson Electric Group is one of the world's largest providers of motion actuators for automotive and industrial applications.

Over the years, we have shipped billions of motors to more than thirty countries in over one hundred different motor applications. Johnson Electric has an annual production capacity of one billion motors.

At the heart of Johnson Electric's success is our commitment to make our customers successful. Our customers include many of the world's leading industrial, consumer and automotive companies. We begin by understanding our customers' business needs, and the product application requirements of the end user of our customers' products. Then we design and deliver innovative motion solutions that help our customers to differentiate their products in the marketplace. Our goal is to be instrumental in the successful launch of our customers' products in their respective marketplaces.

Our Brand Promise **Johnson Electric is the most reliable partner**

Johnson Electric is responsive and flexible; and has the financial stability and organizational integrity to meet all of our commitments and to support our customers' success. Product reliability and assurance of supply are our commitment.

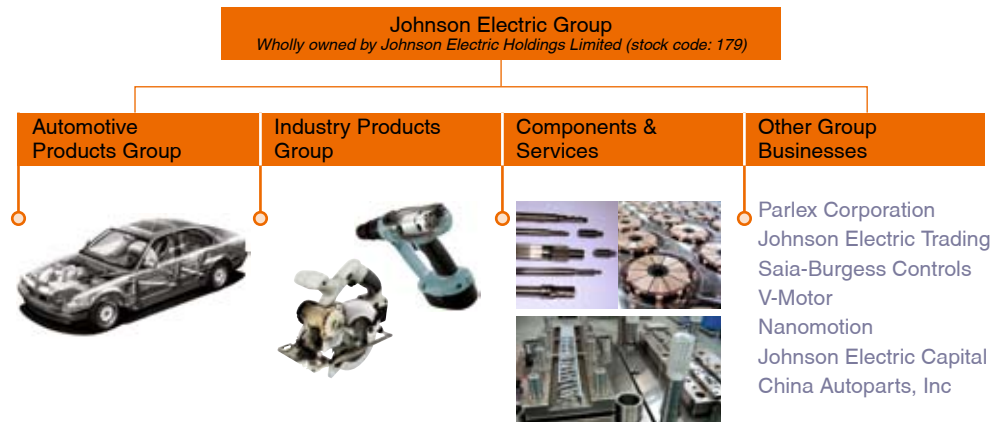
Johnson Electric delivers competitive advantage

Johnson Electric delivers differentiation and innovation through its motion products – subsystems comprising of Stepper Motors, DC Motors, AC Motors, Piezo-electric Motors, Switches, Solenoids, Flexi Circuits, Motion Control, Precision Plastics and Precision Gears.

Our business growth hinges with leading "branded" goods producers to deliver differentiation and innovation through our motion products. The core platform for delivering these solutions is a highly developed production base and focused customer support teams throughout the world. This combines scale advantages in production and procurement with skilled and dedicated motion application experts.



Johnson Electric Holdings Limited is the parent company of the Johnson Electric Group and has been listed on the Stock Exchange of Hong Kong since 1984. The Group structure consists of a number of operating divisions and business units focused on their particular customer application or product segment.



The Group's motion systems, motors and switches businesses are managed through two primary operating divisions: Automotive Products Group and Industry Products Group.

The Automotive Products Group, which consists of Johnson Electric's Automotive Motors Group and the Automotive Division of Saia-Burgess Electronics, is focused on providing customized motion solutions for major automotive application segments that include powertrain, body and chassis.

The Industry Products Group is comprised of business units that provide motion products and solutions for various commercial and industrial application sectors, including home appliances, power tools, business equipment, personal care products, medical equipment and healthcare, building automation and security, audio-visual and other industrial products.

Supporting these two operating divisions is the Group's Components & Services function which pro-

duces metal and plastic parts, tooling and production equipment for motor and motion related products. Johnson Electric is a highly vertically integrated business that manufactures an exceptionally wide range of components that form the basis for its final assembled end products. We make magnets, bearings, shafts, housings, laminations, commutators and die cast parts. We also build tools, assembly fixtures, plastic molds as well as armature winding and other production machines.

In addition to motion systems and motors, the Group also consists of a number of complementary manufacturing businesses and other subsidiary companies. These include an innovative provider of flexible printed circuits and interconnect solutions; a successful niche player in the programmable controls industry; and a rapidly growing specialty metals and trading services company.

OUR COMPETITIVE ADVANTAGE

Johnson Electric’s competitive advantage is built on excellence and innovation in all areas of the company, qualities that provide reassurance and differentiation for our customers.

Application Focus

Business units are structured to support key market segments and deliver on our customers’ application requirements

Quality Focus

Unrelenting commitment to continual improvement and to the ultimate attainment of zero defects in all areas of our business

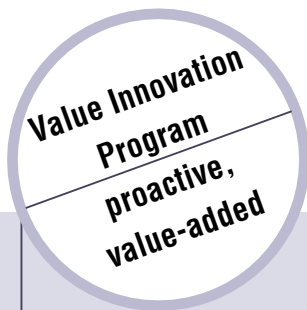
Customer Partnerships

Established long-term strategic relationships with world’s best-known brands in the industry, providing motion solutions that last

Global Footprint

A global company that provides “local” sales and technical support to customers

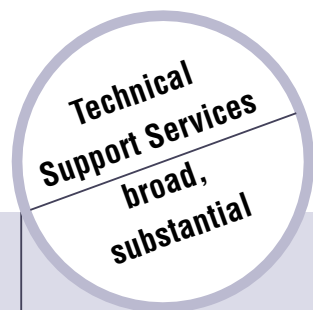
INNOVATING FOR THE FUTURE



- Collaboration on-site with innovative customers – rapid new product development and prototyping
- Leverages Johnson Electric’s and customers’ capabilities
- Creates new products for new markets
- Creates leadership in strategic projects



- Shajing — Motors
- Murten — Actuators
- Yokneam — Piezo-electric Motors
- Dresden — Stepper & Synchronous Motors
- Halver — Switches
- Saku — Geared Systems
- Vandalia — Solenoids



- Customer validates testing results: Material Laboratories, UL certified laboratory, Acoustic Laboratory, Wind Tunnel for Cooling Fans, EMI
- Finite Element Analysis: Structural, Magnetic, Computational Fluid Dynamics
- Rapid Prototyping: SLS Technology Plastic Parts, SLA Technology Parts, KelTool Technology Parts, Vacuum Casting Technology Parts

Assurance of Supply

More than 40 years in the motion business, with a strong history of financial stability and long-term relationships with key suppliers and customers

Engineering Expertise & Flexibility

Proven reliable technical partner, with an application focus that enables us to offer value-based expertise

Scale & Speed

Constantly delivering the benefits of scale and speed to demanding customers

Unrivalled Technology & Capabilities

An array of products and capabilities that span AC, DC & stepper motors, solenoids, actuators, precision gears, precision plastics, switches and flexible circuits

Johnson University
extensive,
focused

- Extensive programs and courses covering leadership, engineering design, environment, quality systems, operational training, work safety, prevention and maintenance
- Graduates in Master of Science in Engineering, B.S. Engineering, etc.

Johnson city
manufacturing
excellence

- 30,000 employees and subcontract workers, 250,000+ square meters
- Around 2,000 engineers and designers
- Capacity: 3 million motors a day
- Skills Training Center
- High degree of Vertical Integration: in-house components and equipment

- Lean Manufacturing Concepts: 3P, Cellular assembly, flexible manufacturing, Johnson Electric Production System (JEPS)
- Customer Supply Chain Integration: Local Final Assembly, Local Replenishment (JIT.Kanban)

GLOBAL GROWTH

Johnson Electric is all about creating and delivering value – and growth is the primary measure to this goal. As the growth company in our industry, Johnson Electric is able to offer its employees exceptional opportunities for personal development and rewarding careers. We have over 40,000 employees and subcontract workers in 20 countries worldwide, with the majority engaged in production activities in China. Design engineering centers are located in Hong Kong, China, Japan, Israel, Italy, Switzerland, Germany and the USA, and the number is expected to increase.

● Sales
 ● Engineering
 ● Manufacturing
 ● All

AMERICAS

- Plymouth, Michigan
- Shelton, Connecticut
- Cary, North Carolina
- Vandalia, Ohio
- Springfield, Tennessee
- Methuen, Massachusetts
- San Jose, California
- Cranston, Rhode Island
- Ronkonkoma, New York
- Scarborough, Ontario, Canada
- Sao Paulo, Brazil
- Buenos Aires, Argentina



Murten, Switzerland

EUROPE

- Asti, Italy
- Moncalieri, Italy
- Milan, Italy
- Gouda, Netherlands
- Murten, Switzerland
- Oldenburg, Germany
- Dreieich, Germany
- Dresden, Germany
- Halver, Germany
- Salzburg, Austria
- Vilvoorde, Belgium
- Budaors, Hungary

- Ozd, Hungary
- Hatvan, Hungary
- Dabrowa Górnicza, Poland
- Villeurbanne, France
- Gennevilliers, France
- St. Cloud, France
- Saint Remy de Maurienne, France
- Gateshead, Tyne & Wear, UK
- Coventry, UK
- Newport Isle of Wight, UK
- Monastir, Tunisia
- Yokneam, Israel

ASIA

- Hong Kong headquarters**
- Shajing, Shenzhen, China
- Shanghai, China
- Nanjing, China
- Lianzhou, China
- Tokyo, Japan
- Saku, Nagano, Japan
- Seoul, Korea
- Singapore



Johnson City, Shajing



Hong Kong Headquarters

We are the growth company in
motion related businesses.
Come grow with us.



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Motion Solutions & Actuators

Johnson Electric offers a comprehensive combination of technology, engineering and manufacturing resources that would satisfy any motion solution need. Our products are designed, built, tested, packaged, and shipped to exacting specifications.

To serve our customers, Johnson Electric invests significant resources to utilize the latest industry standards and advancements that create ongoing opportunities for quality enhancements, on-time delivery and cost reductions.

The performance of our products in specific applications is vitally important to us. As such, we do not only invest in design and manufacturing resources but also on reliability and application specific testing such as our application based reliability (ABR) tests.

Value-added assemblies eliminate added cost to maintain multiple vendors, added manufacturing resources and additional inventory. Whether it's as simple as adding a special connector or modifying a shaft, or as complex as fabricating a complete assembly of motors or solenoids, gears, switches and electronic controls, Johnson Electric is capable and willing to work with our customers' design teams to come up with cost effective motion solutions.

How do we develop a solution that's right for the application?

Our engineers understand designing for manufacturability and reliability, and bringing the most cost-effective solutions to our customers. We take all the requirements and formulate a design through the latest design and CAD tools available that would also allow us to simulate and analyze the performance of our products. As a result, prototypes are available more quickly and on a timely basis.

We appreciate the opportunity to collaboratively work with our customers' design teams early in the development cycle of the applications. We can respond to requirements quickly by networking our know-how across the global Johnson Electric organization and at the same time providing local support to increase efficiency, reduce costs and to streamline application development cycles.



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Industry Products

- Diverter Valves
- Thermostatic Valves
- Peristaltic Pumps
- Security Systems
- Camera Lens Modules
- Printer Encoder Systems
- Postal Sorters



Automotive Products

- Cooling Fan Modules
- HVAC Blowers
- Climate Control Actuators
- Windowlift Gear Systems
- Wiper Motor Gear Systems
- Headlamp Adjusters
- Doorlock Latch Systems

Examples of some of the solutions that we provide:



Johnson Electric



As a leader in providing innovative motion solutions, we have the experience and expertise in combining motor, switch, solenoid, gear and motion control technology to provide our customers with leading edge products. Our various product capabilities include vending machine gearboxes, motors with encoder systems, pumps, blowers, windowlift and wiper motor gear systems, electronic speed controlled motion systems, etc..



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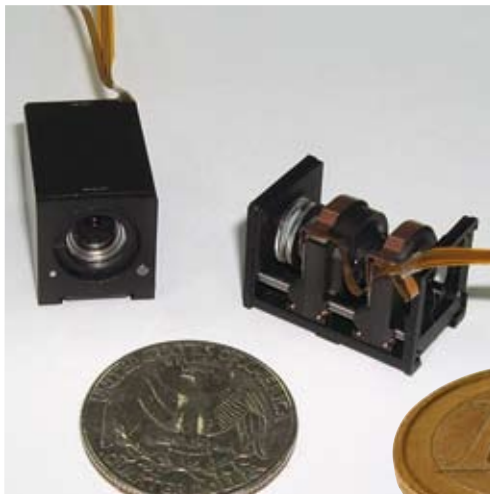
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Motion Solutions & Actuators



Johnson Nihon Mini Gear Systems

Our precision motion expertise in DC motor plus excellence in precision plastics and gears, have enabled us to provide innovative gear systems used in applications such as camera focus and zoom systems, power curtains and toilet seat systems, etc..



NanoLens™ and NanoZoom™
Camera Lens Modules from Johnson
Nanomotion

Combining piezoelectric motion technology from Nanomotion with Nihon Mini's precision and camera motor market leadership, Johnson Electric introduced NanoLens™, the highest performance autofocus lens module, and NanoZoom™, the first 3x optical zoom with continuous autofocus lens module, to the camera phone market.



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Actuators from Saia-Burgess

With unparalleled expertise in developing complete actuator systems, we are #1 in automotive HVAC actuators and headlamp adjusters, providing customers with the flexibility of simple to complex positioning, direct or bus controlled, and fast response with maximum reliability products. Other products include interior lighting switch systems, doorlock latches, gear shifter, brake transmission shift interlock, accelerator pedal box systems, ABS switching system, etc..



Cooling Fan Modules from Johnson Gate

As the #1 manufacturer of automotive cooling fan modules, we are experts in fan and motor technology. We work collaboratively with our customers to develop cooling fan modules, HVAC blowers and speed controllers that are customized to their requirements.



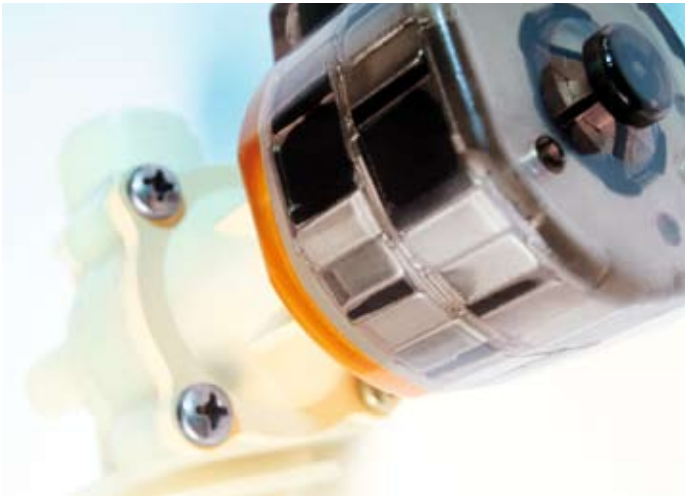
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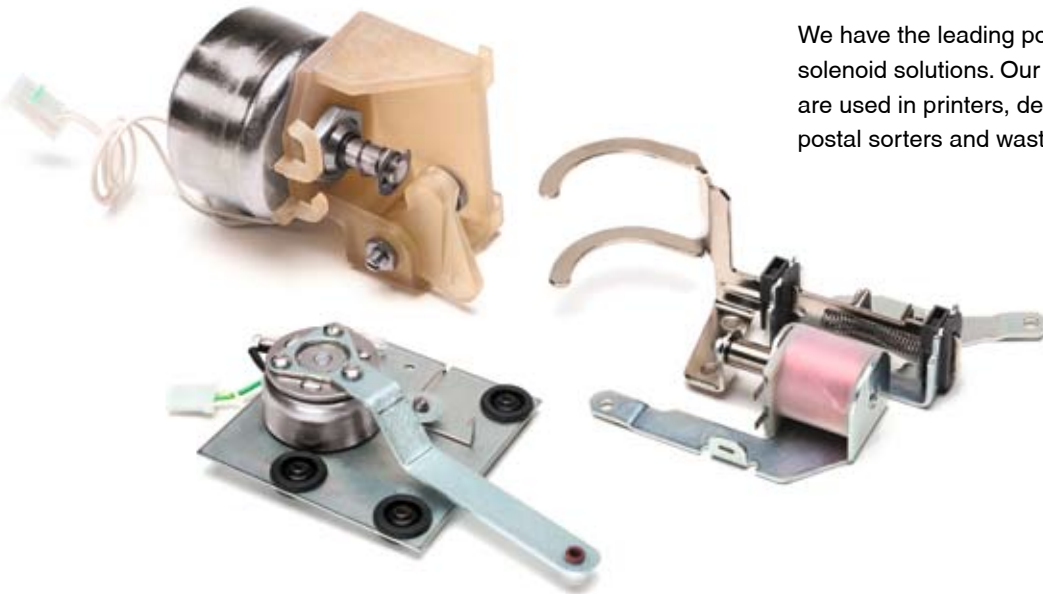
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Motion Solutions & Actuators



Saia Water Valve Solutions

With our proven expertise in stepper motion solutions, we have become #1 in providing HVAC water and gas valve solutions. Other products include level indicator, thermatic valve, squeeze pump and diverter valve.



Ledex Solenoid Assemblies

We have the leading position in providing precision solenoid solutions. Our solenoid motion solutions are used in printers, defibrillators, ATMs, door locks, postal sorters and wastewater pump controls.



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PRODUCTS

Motors

Industry Products

Vending Machines
Water Heaters
ATV and Jet-Skis Starters
Power Tools
Digital Cameras
XY Stages for Semiconductor
Printers
Hairdryers



Vacuum Cleaner Motor

Automotive Products

Doorlocks
Mirror Adjusters
Seat Adjusters
Fuel Pump
Electronic Throttle Control
Washer Pump
Lumbar Support
Electric Parking Brake



JOHNSON MOTOR

- #1 provider of PMDC, brushless, AC and universal motors for power tools, home appliance, business equipment, personal care and audio-visual markets
- Motor and component technology combined with application expertise, scale and production efficiency
- 3 million motors per day capacity
- New products include high voltage DC for dishwasher drain pump, stand mixer and vacuum cleaner power brush



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PRODUCTS

Motors



saia

- #1 in stepper motors
- Precision and efficiency
- Products include stepper and synchronous motors, stepper with gearbox used in industrial applications from 10 to 60mm diameter
- Large variety for motor-gear combination
- Customer-specific solutions-oriented with a high degree of flexibility



NANOMOTION LTD.

- #1 in piezoelectric motors and stages
- Nanomotion's product line ranges from single element motors for actuation to larger motors for driving typical stages, and they operate with no intrinsic magnetic fields and no moving parts
- Motors provide unlimited travel in a compact package, with the ability to achieve unmatched precision for linear or rotary motion
- Typical applications include semiconductor and flat panel equipment, fiber optics manufacturing, storage media manufacturing and test equipment, bio-medical and pharmaceutical manufacturing, metrology and general automation



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PRODUCTS

Switches

th>contact
Panel mounted switches
#1 in control panel flexibility

BAR
Manual operated switches
Sets industry standards



saia
Micro switches
Leader in appliance
and consumer
product segment

burgess
Micro switches
Reliability in industrial
applications



saia

- High volume production lines for micro switches with less than 3 mm contact gap
- High precision switch operating position, small tolerance
- High operating speed / frequency
- High electrical ratings and longer life cycles
- Snap action function with leaf-spring and coil-spring mechanisms available
- Many switch contact options (low and high current)
- Wide range of switching characteristics and terminal options
- Strong in home appliance applications
- Sure switch contacts with contact wiping



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PRODUCTS



burgess

- Strong in industrial automation
- World's first snap action switch company
- Expert innovative switch solutions
- Solid products fulfill high requirements in robustness
- Largest variety in switching technologies
- Worldwide widest range of micro switches
- Low-volume capabilities



thcontact

- Panel mounted switches such as illuminated push-button and keylock switches, as well as joysticks and emergency stop switches for control panels
- Best modular design so that various permutations can easily be assembled
- Worldwide reseller channel



BAR

- Innovative switch solutions for home appliances
- Setting industry standards
- Rocker, push-button and door switches with customized styling
- Intelligent switch combined with electronic controller
- Safety and comfort solutions in switch functions for the home appliance market
- Experts in optical styling for operators and tactile feel for switches



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PRODUCTS

Solenoids

Industry Products

Pharmaceutical Dispensers

Industrial Breakers

Mail Sorters / Diverters

Copiers

Data Storage

Security Locks

Office Automation



LEDEX Solenoids

Automotive Products

E-gas

Transmission Shift Interlock Assemblies

Headlamp Focusing

Lock and Latching



LEDEX

- America's leading industrial solenoid brand for more than 60 years
- Precision electromechanical and electromagnetic solutions
- Experienced teams of design and production engineers for applications such as printers, defibrillators, ATMs, door locks and waste water pump controls
- Excellent customer service and delivery performance with our technical design advantage

DORMEYER

- Leading AC solenoid brand
- Electromechanical and electromagnetic solutions for appliance and industrial actuation applications
- Applications include garage doors, ice dispensers, beverage dispensers, garbage sanitation and washing machines
- Excellent customer service and delivery performance to support high-volume AC solenoid requirements



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www.johnsonelectric.com/about_us/locations.html



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