



DRIVING YOUR VISION COUNTS ON CONNECTIVITY

THAT'S WHY THE WORLD'S MANUFACTURERS
COUNT ON TE CONNECTIVITY.

MOTION & DRIVES

EVERY CONNECTION COUNTS



TE OVERVIEW

TE Connectivity is a \$13 billion world leader in connectivity. We design and manufacture products and solutions that connect and protect the flow of power, data and signal—in every aspect of our lives.

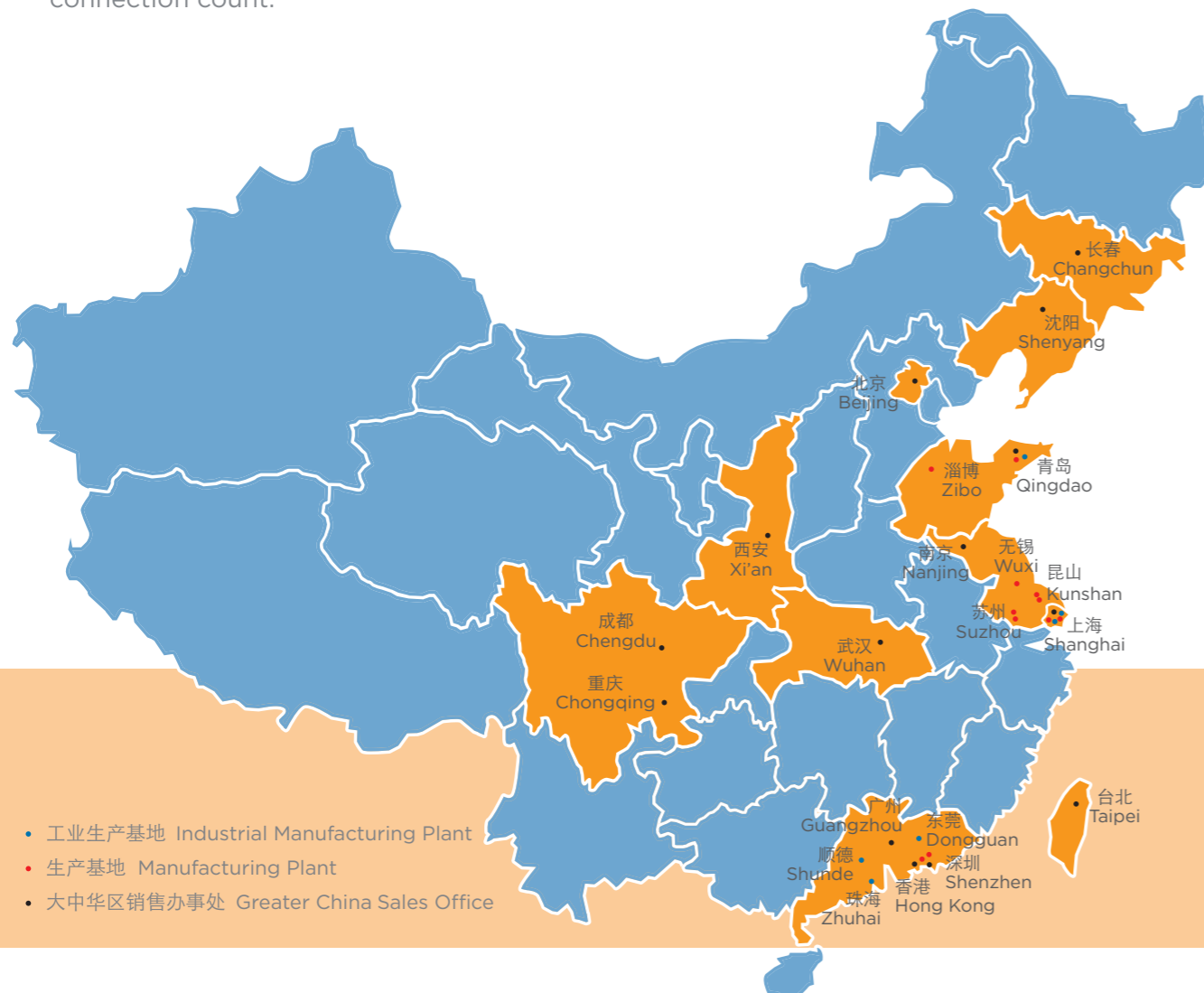
We enable smarter, faster, better technologies to connect materials to end products. Simply put, we solve your biggest connectivity challenges.

Our long-standing commitment to innovation and engineering excellence helps our customers solve the need for more energy efficiency, always-on communications and ever-increasing productivity.

With nearly 90,000 employees in over 50 countries, TE Connectivity makes connections the world relies on to work flawlessly every day.

TE AUTOMATION & CONTROL

Today, manufacturing has to be more of everything: more reliable, more automated, more flexible, more scalable, more decentralized. More connected. At TE Automation & Control, we deliver the innovative solutions to reliably connect, power and control the systems that make production more productive. From the circuit board to the harshest working environments, along the production floor and across the world, we make every connection count.



YOUR MOTION & DRIVES PARTNER IN CHINA

China's production capacity is showing no sign of decline - more end applications are requiring the most sophisticated Motion & Drives products to meet the engineer's design challenges. With over 60 years experience in leading connectivity solutions, TE is uniquely positioned to provide the full connectivity portfolio for the Motion & Drives segment within China while leveraging its strong OEM relationships that drive technology standards and innovation.

And we've been doing just that for our industrial partners. TE is a global industry connectivity leader in Automation & Control, recognized as the supplier of the year for Siemens and Rockwell Automation. Voted 2011 & 2012 Thomson Reuters Top 100 Global Innovator, we are committed to providing quality products, materials to shorten design time and technical support.

TE Connectivity understands that designers face a challenge in creating end applications that meet end users evolving modern day needs.



OUR MOTION & DRIVES SOLUTION

Connect every aspect of your Motion & Drives design with TE's customized and application-specific solutions. Highly developed modular systems driving power and data connections you can count on.

Our Motion & Drives connectivity solutions allow for professional decentralization within your production facility - making it easier to simplify or retrofit your machine architecture, all of which:

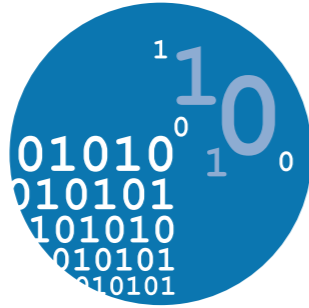
- Saves electricity,
- Improves your carbon footprint,
- Reduces total cost of ownership,
- Increases reliability and productivity

MARKET TRENDS



MINIATURIZATION AND SPACE SAVING :

The miniaturization of products and components in Motion & Drives is a critical trend to ensure space saving can be accomplished.



HIGHER DATA RATES IN INDUSTRIAL COMMUNICATIONS :

Higher data rates between the different controllers in a Motion & Drives System become more and more critical while ensuring a safe and reliable connection.



INTEGRATION OF SYSTEMS :

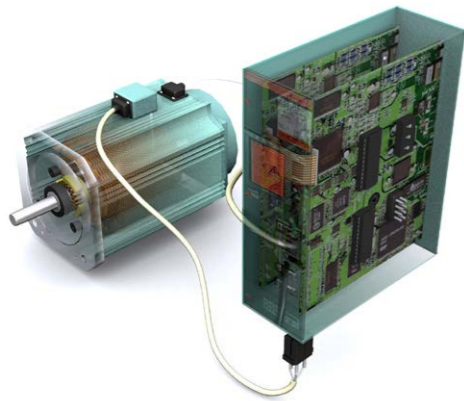
More and more functions and systems, such as communication, control or safety protection need to be integrated in the Motion & Drives solution.



DIVERSITY AND SPECIFICITY :

Different functions need different requirements and data transfer rates, resulting in a larger Input/ Output diversity and specificity.

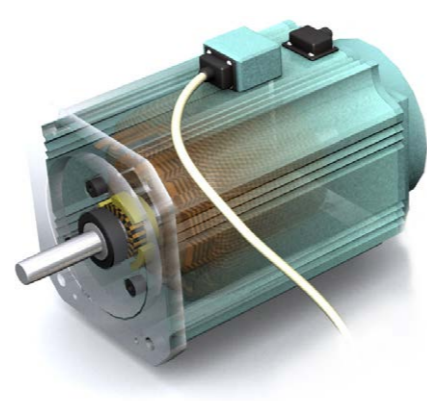
APPLICATION



SERVO DRIVE

The Servo Drive is key in guaranteeing the reliable communication and processing of high data rates, while ensuring a reliable control of the Servo Motor.

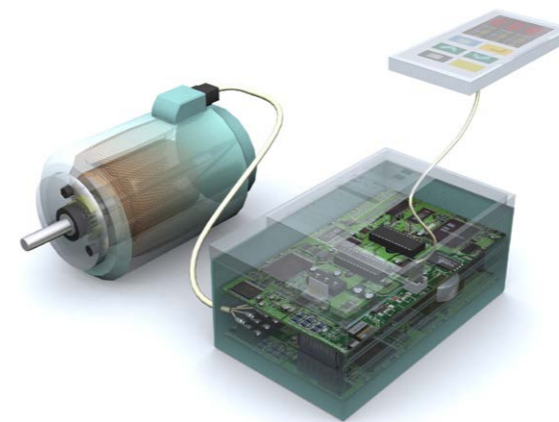
- Dynamic Connector Series
- CHAMP Connector Series
- Industrial Mini I/O Connectors
- Industrial USB Connectors
- Industrial RJ45 Connectors



SERVO MOTOR

The Servo Motor is key in guaranteeing the reliable transfer of communication, signal and power in environments exposed to vibration, liquids, and other harsh environmental conditions.

- Motorman hybrid connector



INVERTER

With more and more inverters having a communication function, the Inverter is key in guaranteeing the reliable control of the equipment.

- AMPMODU Connectors
- Dynamic Connector Series
- Filter
- Relays



HIGHER DATA RATES COUNTS ON CONNECTIVITY

SERVO DRIVE

Dynamic Connector Series

Dynamic Connector series is a broad product family that provides connector solutions ranging from signal level circuitry through power circuit connectivity in a ruggedized, industrialized package. The Dynamic Series is designed for use with a wide range of I/O, signal and power circuits and consists of wire to board, wire to panel and wire to wire connectors. A multitude of housing variations are available to meet most every customer specific applications. The standardized contacts limit the amount of application tooling required.

The connector system is a reliable solution in Factory Automation equipment and computers, Industrial Process Controls, Numeric Controllers, Servo Drives, HMI, Variable Frequency Drives or Switching Power Supplies.



Product Features

- Contact and housing features enable easy mating and unmating
- Three points of contact provides high electrical reliability

Benefits

- Reduced maintenance time
- Reliable and safe connections

Champ Connector Series

Designed for high density applications, these I/O product Board-to-Board and Wire-to-Board plugs and receptacles are highly durable and available in position ranges from 20 to 200.

Product Features

- Ribbon style contacts and fully shrouded housings
- Plug and receptacle in both vertical and right angle mounting
- Shielded system with IDC termination

Benefits

- Reliable and durable connections
- Design flexibility in different configurations
- Space saving



Industrial Mini I/O Connectors

The Industrial Mini I/O connector is an input / output wire-to-board solution that connects data & signal and provides space saving and reliable connections in vibration areas.

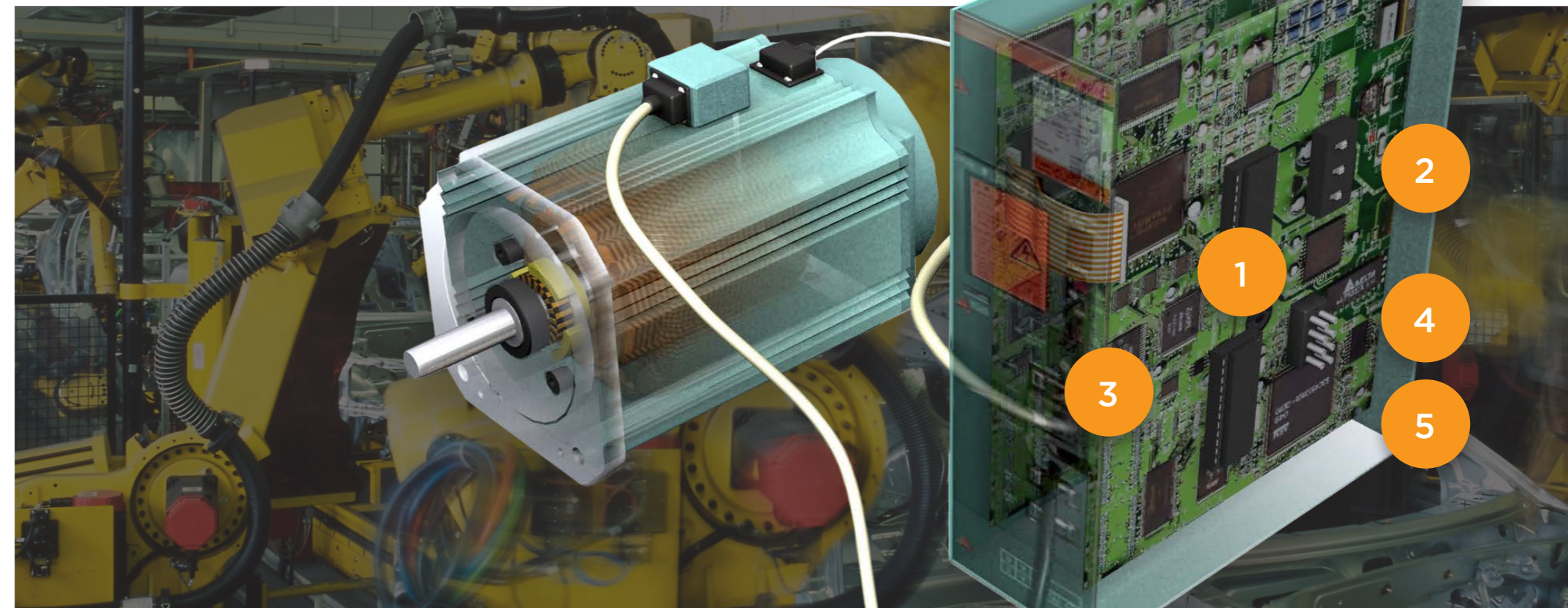
Product Features

- Small, compact size
- Vertical version available,
- SMT and Through Hole available,
- Two unique interfaces to prevent improper connections

Benefits

- Up to 75% space saving
- Reliable connection in vibration and harsh environment

www.te.com/products/mini-io



Industrial USB Connectors

The Industrial USB connectors from TE Connectivity are ideal for all industrial USB applications where a high locking force or a sealed design for the use in industrial applications is required.

Product Features

- Rugged IP20 and Sealed IP67 solution
- Plastic and metal housing
- High locking strength

Benefits

- Reliable connections in harsh environments
- Less downtime

www.te.com/products/industrial-usb



Industrial RJ45 Connectors

The Industrial RJ45 connectors offer a ruggedized design for up to 1000Mbit/s and are equipped with a fast termination technology. This solution can be applied in the field without the need for any tools, significantly reducing time and cost.

Product Features

- Field-installable modular plugs
- Easy installation
- Ruggedized design for use in Industrial Ethernet applications

Benefits

- Easy and fast installation
- Secure connections



Quote

We have recognized the rising demand for higher data rates and smaller components in the Servo Drive applications and want to provide customers with our Motion & Drives solution that saves critical space.

Hou Yu
Motion & Drives Field Engineer, China

SMART SPACE SAVING COUNTS ON CONNECTIVITY

SERVO MOTOR

Motorman hybrid connector

Decentral servo motors are widely used in many industries and are typically connected via a deterministic system and power-fed by a separate cable. The fully configurable Motorman connectivity solution integrates communication, signal and power for real-time control at higher performance and half the size of current standards.

The innovative design and compact size of the Motorman hybrid connector allows for significant space savings in comparison with traditional rectangular industrial connectors. It also helps to keep costs to a minimum by reducing the amount of overall cabling needed as well as shortening cable length.

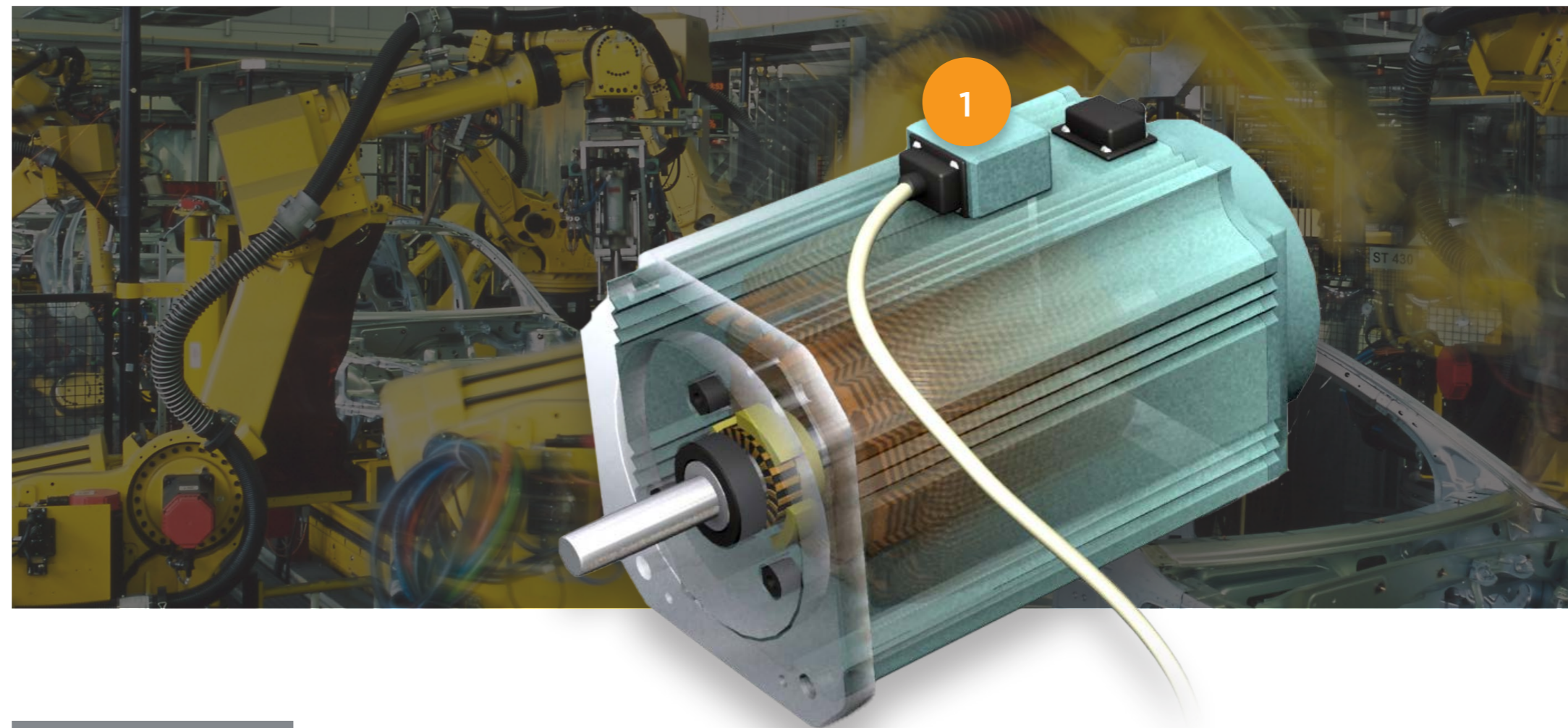
Product Features

- Easy-to-open enclosure: safe configuration due to spacious side access to its interior
- All signals are bundled in one interface which means only one cable needed
- Offers space for two 4-pin Ethernet sockets, five power sockets, five signal sockets and one protection earth contact

Benefits

- Significant space saving
- Cost reduction by shortening and reducing cable length

www.te.com/products/motorman



Quote

Our proven product portfolio offers solutions for all Motion & Drives applications – and as one of the Thomson Reuters Top 100 Global Innovators, we continue to work with our partners and customers to find innovative new solutions.

Sony Song
Industrial Sales Lead, China

SERVO
MOTOR

RELIABLE CONTROL COUNTS ON CONNECTIVITY

INVERTER

AMPMODU Connectors

The AMPMODU interconnect system is the proven TE solution and signal standard for Automation & Control. Designed to reliably and economically meet the packaging and interconnection requirements of today's industrial environments, the AMPMODU solution includes board-to-board, wire-to-board and wire-to-wire connectors. The large variety of components and application possibilities, combined with small size and outstanding quality, make the AMPMODU interconnect system ideal for Motion & Drives systems.

Product Features

- Unique modular concept, utilizing precision formed receptacle contacts and mating posts
- Dual-cantilever beam contact with box design and anti-overstress protection
- System architecture needs to design smaller and more compact products due shrinking PCB real estate

Benefits

- Design flexibility
- Space saving
- Reliable connections

www.te.com/products/ampmodu



Dynamic Connector Series

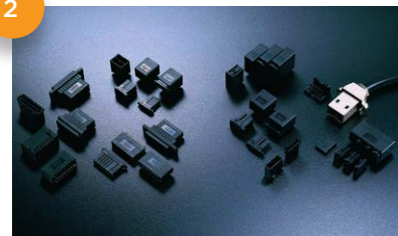
Dynamic Series is a broad product family that provides connector solutions ranging from signal level circuitry through power circuit connectivity in a ruggedized, industrialized package.

Product Features

- Contact and housing features enable easy mating and unmating
- Three points of contact provides high electrical reliability

Benefits

- Reduced maintenance time
- Reliable and safe connections



Filter

As electronic equipment becomes more complex, the need for proper filtering is continually increasing. Filters are an integral part of the Electromagnetic Compatibility (EMC) of an application. They are used to attenuate conducted noise leaving the system and lower the equipment's susceptibility to incoming power line noise. TE's CORCOM filters are globally recognized as the leader in EMI/RFI technology.

Product Features

- Available from 0.5Amp to 1200Amp and with various termination methods
- Voltage selection
- IEC connector and shielding

Benefits

- Reliable performance in high frequency applications

<http://www.corcom.com/>



Relays

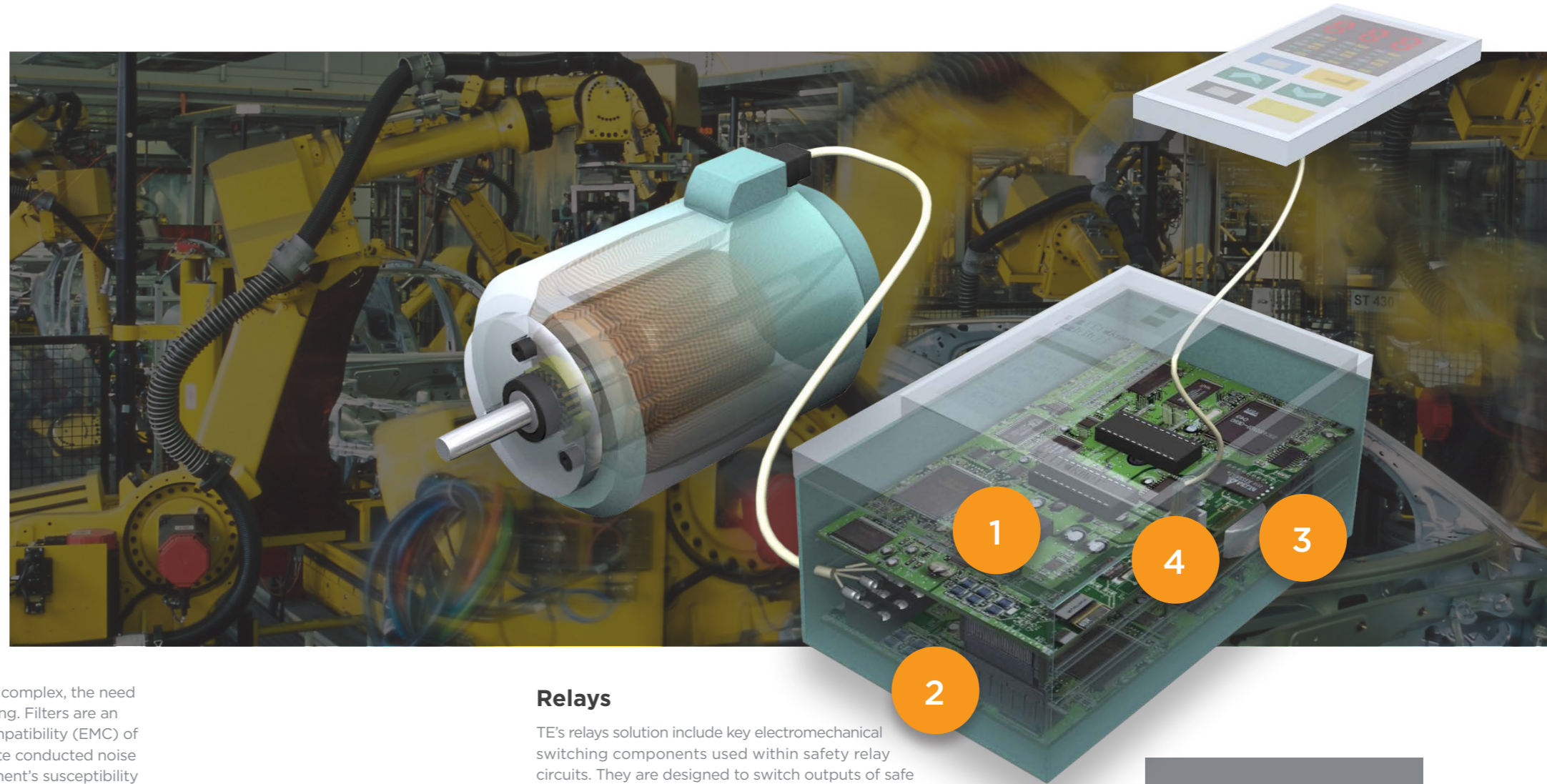
TE's relays solution include key electromechanical switching components used within safety relay circuits. They are designed to switch outputs of safe PLC's for Automation & Control or to monitor machines and processes. That's why force guided relays are essential for safety control applications: they help protect people's lives when danger needs to be switched off - safely. Whether the application is a basic pump control circuit, a complex interface with a programmable logic controller or a safety circuit, industrial machinery designers specify components from TE Relay Products.

Product Features

- Forcibly guided contacts according to EN 50205
- 2 / 4 / 6 pole
- Segregated contacts
- Small size

Benefits

- Safety within Motion & Drives
- Space saving



Quote

Our Motion & Drives products offer a complete solution that can help our customers address their harsh environment challenges, safe and reliable.

Robin Zhao
Application Sales Manager, China

LET'S CONNECT

Our broad electromechanical and electronic product portfolio covers all your needs, ranging from simple machinery equipment to fully integrated factory automation and process solutions. TE enables connectivity for signal, power, data and logic control for use in a wide range of operating environments—from office to light and even heavy industrial applications.

With TE as your innovation partner, you'll find everything you need to create and operate a cost efficient and highly reliable production process. We're at our best when we work with your early design product & process management teams to get the job done right from the start. We also offer continuous improvement programs that give you a real competitive advantage. Because you can't achieve greater productivity and efficiency without better connectivity.

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