

INSPIRED BY EFFICIENCY



Smart. Economic. Flexible.  
**Material Handling Solutions  
For The Tire Industry**



Just as the quality of a Formula 1 race car's tires determines the final result, we at Interroll believe that for tire production and handling operations the quality of every single component influences your customers' satisfaction, your operators' safety and, ultimately, your competitiveness.

We are a proud intralogistics partner of the Alfa Romeo Racing F1 Team, eager to learn from the best.

**Efficiency is what truly inspires us.**



**...and if there were a technology for your tire handling operations that:**



**HELPED YOU** REDUCE YOUR PRIMARY ENERGY CONSUMPTION SIGNIFICANTLY



**REDUCED** MAINTENANCE COSTS AND ALLOWED EASY SYSTEM EXTENSIONS OR RETROFITS



**INCREASED** SAFETY AND REDUCED NOISE LEVELS FOR YOUR OPERATORS



On the following pages you will discover how **Interroll's key products** for the tire industry can help you strengthen your competitive position.



OUR PRODUCT OFFERING:

Best in class 24V and 48V technology



YOUR BENEFITS:

- > Up to 50% energy savings
- > Significant noise reduction for your operators
- > Lower maintenance costs
- > Gains in installation and retrofit times

Energy efficient and economical:  
Our 24V and 48V technology for the  
tire industry

Interroll launched a brand-new DC Platform. It includes a new RollerDrive, EC5000, as well as new Controls and Power Supplies.

This combination of 48V solutions provides outstanding advances in automated conveyor technology and makes it possible to embrace the digital world: autonomous conveyors, predictive maintenance and more.



ENERGY  
SAVINGS

UP TO 50%

Compared with 400V drive systems, a conveyor system powered with RollerDrive allows for energy savings of up to 50% on average.



Interroll MultiControl

- Complete and direct management of various functions:
- Motors and sensors
  - Acceleration and deceleration ramps
  - ZPA function
  - Speed Control
  - Compatible with almost all PLCs via EtherNet/IP, EtherCAT and PROFINET



24V or 48V  
RollerDrive EC5000

- The best drive solution for practically any conveyor system.
- Powered by a brushless DC motor integrated into a conveyor roller to save space.



Accessories  
(conveyor rollers, PolyVee  
belts, cabling & tools)

- Enable fast and seamless integration of Interroll 24V products.
- Smart and operator-friendly design.



Interroll: leading manufacturer of  
motorized rollers

With many years of experience and several hundred thousand RollerDrive in use, Interroll makes a strong contribution to the industry in terms of primary energy savings.



The Karlsruhe Institute of Technology (KIT) confirms<sup>1</sup>:

“ Apart from safe usage, this technology stands out for the increased degree of flexibility derived from dividing one long conveyor into smaller, decentralized modules, which leads to **energy-efficient operation and immediate cost savings.** ”

“ When transporting a low-load carrier of 50 kg it was able to be established that 24-volt technology used in intermittent service is 30% more energy

efficient and when used in accumulating mode as much as **50% more energy efficient** than comparable use of 400-volt drive technology. ”

“ **Flexibility increases** as a result of dividing a conveyor up into smaller modules, since these represent a versatile solution that is able to grow with the company and can be adapted at any time to expand existing segments, or build new conveyor routes. ”

<sup>1</sup> Dipl.-Ing. Meike Braun, Dipl.-Ing. Peter Linsel, Prof. Dr.-Ing. Kai Furmans: “24-volt drive technology in continuous conveyor systems”, Karlsruher Institut für Technologie (KIT), June 2013. The White Paper can be downloaded from [www.interroll.com](http://www.interroll.com) (Section “Downloads”)



## OUR PRODUCT OFFERING:

# **Energy-efficient and compact belt drives**

### Efficient, robust and space-saving: Interroll belt drives for the tire industry

There are many reasons for using Interroll Drum Motors instead of conventional motors as belt drives in the tire production process, from the mill room to curing. Because the motor, gearbox and bearings are mounted within the drum shell, a drum motor takes up much less space than other motors. The motors' internal components are protected from external influences, thereby rendering them virtually maintenance-free.

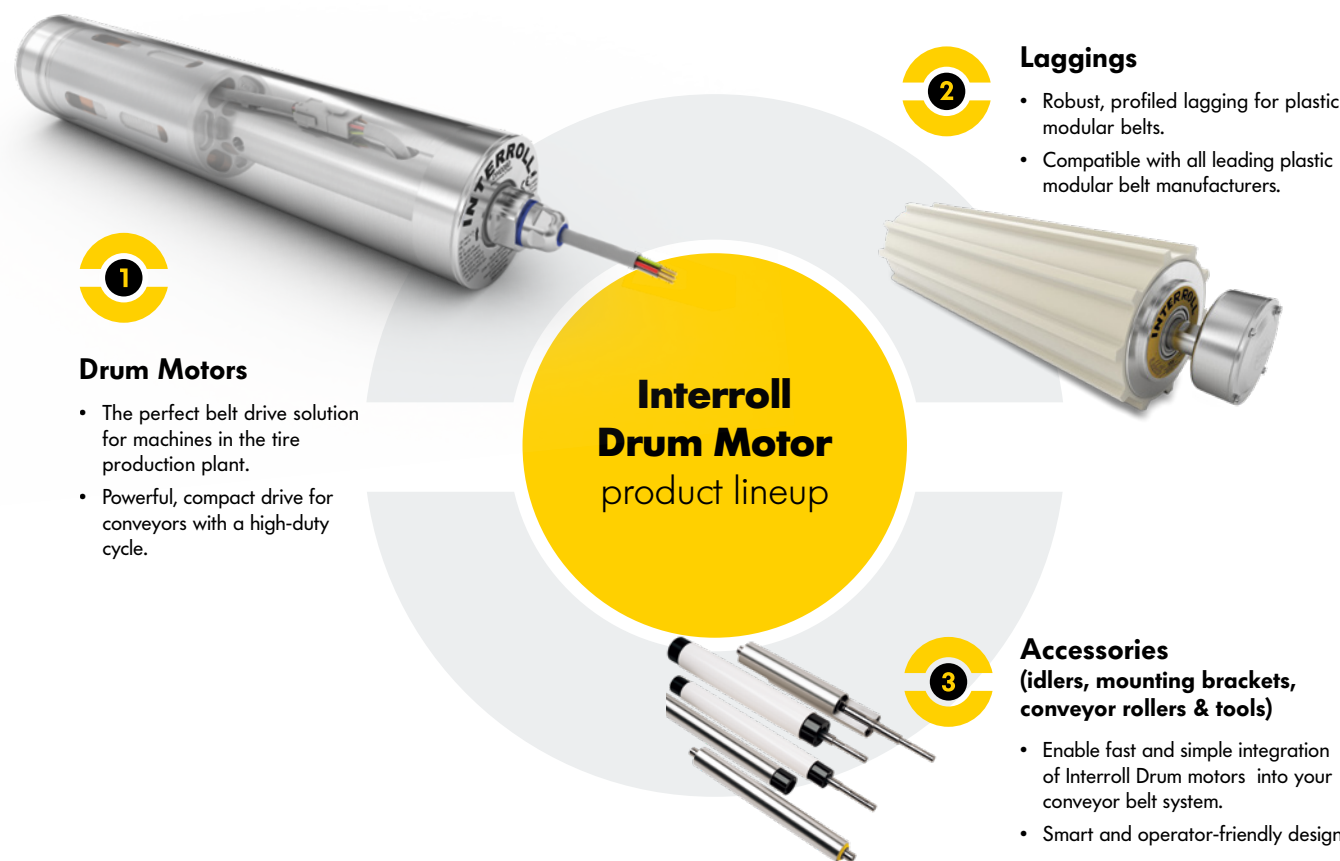
Finally, the installation of Interroll Drum Motors is significantly faster and easier — less than a quarter of the installation time for a drive with many individual components.



**UNMATCHED  
EFFICIENCY**

UP TO **83%**

Interroll Drum Motors operate with an unmatched efficiency of up to 83%.



Check our product specifications on [www.interroll.com](http://www.interroll.com)



## YOUR BENEFITS:

- > Up to 30% energy savings
- > Space-saving design
- > Lower maintenance costs
- > Short installation times



### Interroll: long-standing, trusted supplier to leading system integrators in the tire industry

For many years, proudly supplying our key products, such as rollers and drives, to **GIORDANO & C.**



#### ▶ **GIORDANO & C S.P.A**

Giordano & C. has been on the market since 1924. They integrate each process for the complete development of the project. In their work every phase is important.

Giordano & C. **MANAGE** the whole project, from **ENGINEERING** to all essential phases of the **REALIZATION** and the **COMMISSIONING**. Their professional, trustworthy and highly experienced team of experts provides turnkey solutions in **INDUSTRIAL** and **M.E.P.** fields, in Italy, USA and all over the world.

#### ▶ **CONTACT**

Giordano & C S.p.A  
via Cuneo 147 - 12012 Boves (CN) Italia  
via Spalato 68 - 10100 Torino (TO) Italia

Giordano & C USA Inc.  
33 Market Point Drive - Greenville, SC  
29607 (US)

**Key Contact:** Raimondo Marco

**Phone:** +39 335 7124466

**E-mail:** [raimondo.marco@giordanocompany.it](mailto:raimondo.marco@giordanocompany.it)

#### ▶ **WEBSITE**

[www.giordanocompany.it/en](http://www.giordanocompany.it/en)





## OUR PRODUCT OFFERING:

# **Reliable and efficient conveyors**

### Combination of the finest components: Modular Conveyor Platform for the tire industry

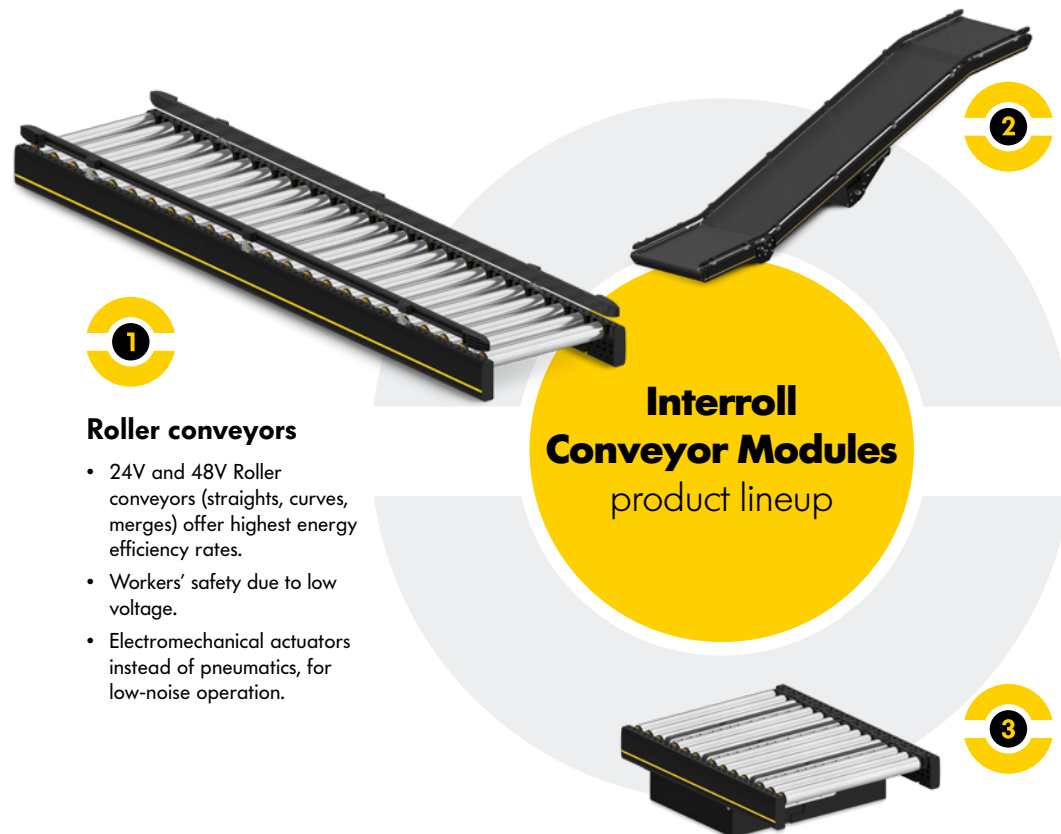
Interroll's conveyor modules are the most versatile and durable systems available, assuring highest availability and scalability for future growth. These plug-and-play modules simplify the planning and installation processes for system integrators. Our premium-quality components—including rollers, DC motorized rollers and drum motors—deliver maximum performance and energy efficiency.



LOW-NOISE  
OPERATION

< **60** dBA

Instead of using pneumatics, 24V and 48V roller conveyors guarantee lowest operating costs and improved work environment thanks to exemplary low-noise operation (< 60dBA)



**1**

#### Roller conveyors

- 24V and 48V Roller conveyors (straights, curves, merges) offer highest energy efficiency rates.
- Workers' safety due to low voltage.
- Electromechanical actuators instead of pneumatics, for low-noise operation.

**2**

#### Belt conveyors

- Powered by highly efficient, compact drum motors.
- Easy and fast replacement of belt from the top.
- High product throughput levels can be reached in straights, inclines and curves.

**3**

#### Transfers and lifts

- Highest system availability thanks to reliable transfer technology.
- Key elements such as transfers, lifts, stops, etc., designed for modular expansion and connection of conveyor lines.

**Interroll  
Conveyor Modules**  
product lineup



Check our product specifications on [www.interroll.com](http://www.interroll.com)



## YOUR BENEFITS:

- > Up to 50% energy savings
- > Highest system availability
- > Improved work environment and operator safety
- > Modular design allows easy system extensions



### Interroll: long-standing, trusted supplier to leading system integrators in the tire industry

For many years, proudly supplying our key products such as rollers and drives to **CASSIOLI**, official Rolling On Interroll partner of the Interroll Group.



#### ► CASSIOLI

A global company with over 70 years of experience in the tire industry, CASSIOLI has installed its products in various parts of the world, and is a reference point for many important multinational companies interested in improving the efficiency of their production and distribution systems.

CASSIOLI offers complete automation technology for tire manufacturers, providing total control of the material flow and precise real-time data for production and inventory management. Their TIREmove system optimizes throughput by performing a dynamic use of the available space. The entire production process is fully automated and each tire can be tracked all the way.

#### ► CONTACT

Cassoli srl. - Località Guardavalle 63  
53049 Torrita di Siena (SI) - Italy

**Phone:** +39 0577 684511

**E-mail:** [info@cassoli.com](mailto:info@cassoli.com)

#### ► WEBSITE

[www.cassoli.com](http://www.cassoli.com)



CASSIOLI IS AN OFFICIAL PARTNER OF THE **ROLLING ON INTERROLL PROGRAM** OF THE WORLDWIDE INTERROLL GROUP.





## THE LEADING MATERIAL HANDLING COMPANIES RELY ON US.

Since our company's founding over 50 years ago, we have always been a strong partner to OEMs and system integrators around the world. For them, our key products, such as drives and rollers, are crucial for the availability and functionality of their machine or conveyor system. Together with our partners, we are making a strong statement for quality and leadership in our industry. We call it Rolling On Interroll.

### A joint statement for superior quality and performance

Rolling On Interroll is a quality label that our program partners display on machines and systems that are built with Interroll key products, like drives and rollers that are critical for the availability and the throughput of their systems. It is a visual sign that a machine or conveyor line is powered by high-quality drive technology that gives the end user peace of mind.



“Rolling On Interroll is not just a marketing campaign. It reflects the soul of our company and demonstrates our business model: We are a neutral provider of key products with open platforms and a strong partner to machine manufacturers and system integrators around the world.”

> **Franz Schöpf**  
Global Program Director



## Interroll: long-standing, trusted supplier to leading system integrators in the tire industry

For many years, proudly supplying our key products, such as rollers and drives, to **TRANSSYSTEM**.



### ▶ TRANSSYSTEM

Transsystem brand has been associated with professionalism, quality and flexibility of operation for more than 25 years. They specialize in designing and manufacturing material handling systems suited to the needs of their customers.

Transsystem gained a lot of experience while implementing projects in many countries and virtually in all car factories in the world as well as other industrial sectors.

Transsystem is the only company in the industry which realizes the whole project at home, keeping the entire production process under control.

### ▶ CONTACT

TRANSSYSTEM Spółka Akcyjna  
Wola Dalsza 367  
37-100 Łańcut - Poland

**Phone:** +48 17 24 90 100  
**E-mail:** transsystem@transsystem.pl

### ▶ WEBSITE

[transsystem.pl/en](https://transsystem.pl/en)





# Interroll, a truly global player

THE INTERROLL GROUP

**32** COMPANIES | **2,300** EMPLOYEES

The Interroll Group is a worldwide leading producer of high-quality key products and services for internal logistics. The company offers a broad product range, from rollers and drives to conveyors and sorters, to around 23,000 customers (system integrators and OEMs) around the world. Core industries are automotive and tire, airport logistics, food processing, postal services, distribution and other sectors.

Headquartered in Sant'Antonino, Switzerland, Interroll operates a worldwide network of 32 companies with around 2,300 employees. The company was founded in 1959 and has been listed on the SIX Swiss Exchange and included in the SPI index since 1997. Interroll products are in daily use at

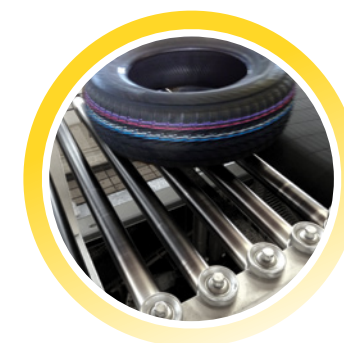
—among others—well-known global brands such as Amazon, Bosch, Coca-Cola, Coop, DHL, FedEx, Peugeot, PepsiCo, Procter & Gamble, Siemens, Walmart and Yamaha.

## Interroll at its best: our Centers of Excellence

Interroll Centers of Excellence operate on a global level. Their focus is on the development of innovative products for existing and newly emerging applications as well as on the implementation of highly productive manufacturing techniques for a clearly defined group of products.



## Interroll in the tire industry



### OUR KEY PRODUCTS FOR THE TIRE MARKET ARE DEVELOPED AND MANUFACTURED IN THE FOLLOWING CENTERS:



#### CENTER OF EXCELLENCE for Rollers and RollerDrive

The Interroll Center of Excellence in **Wermelskirchen** (near Cologne, Germany) concentrates on conveyor rollers, RollerDrive and controls, used as key products in roller conveyors for container transport and other internal logistics systems.



#### CENTER OF EXCELLENCE for Drum Motors

The Interroll Center of Excellence in **Baal** (near Düsseldorf, Germany) concentrates on drum motors used as drive solutions in belt conveyors for a variety of industries. Production facilities also include the Coating Center for rubberized drum motors.



#### CENTER OF EXCELLENCE for Modules and Subsystems

The Interroll Center of Excellence in **Sinsheim** (near Heidelberg, Germany) concentrates on subsystems and modules implemented at key locations in internal logistics. These include crossbelt sorters, belt curves, roller conveyors and belt conveyors.



For the Asian and American markets, constant technology and know-how transfer takes place between the German hubs and the Regional Centers of Excellence in Suzhou (near Shanghai, China) and Atlanta (Georgia, USA).

Our key products, like the cutting-edge 24V and 48V technology and drum motors, as efficient and compact belt drives, have been used for many years by market leaders like *Pirelli, Bridgestone, Continental* and many more.

*These products were perfectly integrated, commissioned and serviced by our long-standing partners and leading system integrators in the tire handling industry, like Cimcorp or Cassioli, to name just a few.*



### Global availability

Apart from our high-quality products, we provide added value to you and our partners through our global footprint, availability and support.



### Our proven track record gives you peace of mind

As an exchange-listed company, we are proud of our outstanding financial track record that gives our customers the certainty of reliable, high-quality deliveries all the time—for any size of project.



### Open platforms

As a truly independent supplier with open platforms, Interroll can tailor its offering to the requirements of any system integrator, worldwide.





“ At Interroll we are passionate about tires. We offer quality, ease of use and speed. Together with our partners—system integrators around the world—we provide specific solutions for the tire industry and meet the requirements of our global customers with our products and the unique network of Interroll. ”

> **Stefano Amarena**  
Industry Sales Manager Automotive & Tire  
Interroll Group  
**E-mail:** s.amarena@interroll.com

# Interroll key products for the tire industry

Efficient, economical, proven



## Reduction of primary energy consumption

24V and 48V Interroll technology provides energy savings of up to **50 percent** compared to conventional drive technology.



## Increased operator safety

**Low voltage** drive technology reduces risk of work related injuries.



## Improved work environment due to low-noise operation

Interroll RollerDrive operates at just **50 dBA** (depending on use).



## Global presence and availability for your peace of mind

Interroll's global network of **32 companies** worldwide ensures the same quality levels for deliveries anywhere in the world.





## About Interroll

The Interroll Group is the leading global provider of material handling solutions. The company was founded in 1959 and has been listed on the SIX Swiss Exchange since 1997.

Interroll provides system integrators and OEMs with a wide range of platform-based products and services in these categories: Rollers (conveyor rollers), Drives (motors and drives for conveyor systems), Conveyors & Sorters as well as Pallet & Carton Flow (flow storage systems). Interroll solutions are in operation in express and postal services, e-commerce, airports, the food and beverage industry, fashion, automotive sectors, and many other manufacturing industries.

Among the company's end users are leading brands such as Amazon, Bosch, Coca-Cola, DHL, Nestlé, Procter & Gamble, Siemens, Walmart and Zalando. Headquartered in Switzerland, Interroll has a global network of 32 companies with turnover of around CHF 559.9 million and 2,300 employees (2018).

## **interroll.com**

Interroll reserves the right to modify the technical features of its products at any time. Technical information, volumes, data and features are only rough guidelines.

© Interroll 2020