

PRESS RELEASE



Bonfiglioli debuts at Parcel+Post Expo with advanced solutions for parcel and postal automation

Calderara di Reno, Bologna – 21st October 2025 – Bonfiglioli makes its debut at **Parcel+Post Expo**, the parcel industry innovation hub taking place in Amsterdam from the 21st to the 23rd of October. By attending the exhibition, Bonfiglioli positions itself as a leading player in the **supply of cutting-edge components for OEMs** that develop services, software, machinery and automation systems for **sorting plants** used in the postal and courier sectors. Here, Bonfiglioli is identified as a **prominent international partner** capable of **meeting needs around the world**, both in terms of service and spare parts, as well as post-sales support, through its production sites and distribution network across all continents. An additional advantage is the high degree of **product customization**, whether it's 1:1 interchangeable mechanical coupling, firmware or software customization on the inverter side or integration of IoT functions in Bonfiglioli's inverters.

Driving efficiency with cutting-edge systems for conveyors

At the trade fair, Bonfiglioli is focusing on **two macro areas** where its highly efficient components can make the difference: **fixed conveyors**, such as conveyor belts and roller conveyor, and **mobile conveyors** in the form of AGVs and AMRs.

For the former, i.e. **smart conveyors**, Bonfiglioli presents a demo featuring three versions of the **A Series** helical bevel gearmotors, each covering a different torque range — A10, A20 and A30 — paired respectively with the MXN, BSR and MX motors, along with a sensorized DGM modular inverter. This setup showcases Bonfiglioli's broad offering of gearboxes and motors, as well as the ability to connect multiple GMIs to a single EDGE IPC. The compact, globally certified IE3 MXN motor stands out for its wide voltage range, making it an ideal solution for automation applications. Meanwhile, the combination of the highly efficient **BSR reluctance synchronous motor** — free from rare earth elements and rated in the IE4 efficiency class — with the **DGM decentralized inverter** offers a significant advantage, improving both energy efficiency and the total cost of ownership (TCO) of machines and processes.

Eyes on low voltage high-performing BMD motors on fixed and mobile conveyors

One of the most spotlighted products is the 3-phase synchronous motor of the **BMD Series**. This low-voltage motor is characterized by compact dimensions and low/medium inertia, it is suitable for high-dynamic industrial applications, AMRs and AGVs. BMD is **brushless, permanent magnet, low-voltage** (24 to 48 volts) but **highly efficient (IE5) motor** and offers an additional advantage besides low voltage: unlike traditional stepper motors, it is not a DC motor but a **three-phase AC motor**, delivering **exceptional performance** and **excellent torque** values. For material handling operations, where the current trend is to replace fixed conveyors belts with **mobile applications**, the BMD represents the ideal solution. At Parcel+Post Expo it will be applied to a gearmotor of the F Series and a servoflange. The helical parallel-shaft gearmotor of the F-Series is a drive that maximizes mounting flexibility and boasts high efficiency and torque density, reliability and low-noise operation. Furthermore, the BMD motor is integrated in the steering group of an **AGV forklift** which also includes a precision planetary gearbox of the MP Series offering great modularity due to multiple design configurations, wide ratios range, two backlash classes and different optimized lubrications.

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Supporting material handling operations with systems for AMRs

Autonomous Mobile Robots are essential to simplify intralogistics process flows. For this sector, Bonfiglioli presents two wheel groups. The first one is the **BlueRoll Platform** featuring a precision planetary gearbox and a **compact low voltage wheel-mounted planetary gearmotor of the BMS Series**, which is compatible with electronic drives and can include 24 or 48-volt batteries. The BMS Series stands out for its compact, flange-free design, delivering **high torsional stiffness** and **low moment of inertia** — ideal for precision applications where accuracy and efficiency are critical. Thanks to its **space-saving architecture** and **versatile configuration options**, the BMS Series enhances performance by seamlessly combining the advantages of permanent magnet technology, low-voltage synchronous three-phase AC motors and precision planetary gearboxes.

AxiaVert: Bonfiglioli's premium frequency inverter with enhanced functionalities

A special focus is dedicated to **AxiaVert**, the premium series of frequency inverters offering integrated functional safety, precision and control for any industry and process. At Parcel+Post Expo, AxiaVert is showcased in four frame sizes. Thanks to its **modular design**, AxiaVert is a drive that seamlessly integrates into any Bonfiglioli technology and automation network, ensuring **compatibility** with the most used Fieldbus protocols – Profinet, Ethercat, Ethercat IP and Powerlink – using a single product code via a multiprotocol board. This enhances production optimization in line with Industry 4.0 standards. Prioritizing functional safety, Bonfiglioli's AxiaVert provides all **key safety functions** required by the market, including STO, SS1, SBC, SLS, SLP and SOS. Its various Functional Safety variants allow for optimized configuration, reducing the need for external safety components while ensuring safe and controlled operation to meet industry standards. Furthermore, AxiaVert excels in Fieldbus EtherCAT FSoE communication integration, significantly reducing labor and cabling costs by transmitting all safety communications between the inverter and PLC via the fieldbus.

Bonfiglioli brings industry 4.0 to life with an integrated IoT solution

Industrial machinery manufacturers and operators face ongoing challenges such as unplanned downtime, unexpected failures, high maintenance costs and limited equipment lifespan. As a trusted technology partner, Bonfiglioli tackles these issues with reliable **Industrial IoT (IIoT) solutions** that combine **Condition Monitoring** and **Predictive Maintenance**. Leveraging its proprietary IoT platform, Bonfiglioli uses Z and W sensors to continuously monitor gearboxes and motors, gathering real-time data on performance, energy consumption and actual operating conditions. Bonfiglioli's predictive maintenance services enable early detection of potential issues, minimizing downtime and optimizing maintenance planning. The result is greater transparency, control and operational efficiency - enhancing the reliability and overall performance of industrial machinery.

Bonfiglioli's premiere at Parcel+Post Expo marks an important step in expanding its presence in the parcel and postal automation sector. By showcasing its advanced solutions for sorting systems, the company highlights its commitment to supporting OEMs with high-performance, customizable components tailored to the evolving needs of the industry.

Bonfiglioli Group

Bonfiglioli is a worldwide designer, manufacturer and distributor of a complete range of gearmotors, drive systems, planetary gearboxes and inverters, which satisfy the most challenging and demanding needs in industrial

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automation, mobile machinery and renewable energy. The Group serves more industries and applications than any other drives manufacturer and is a market leader in many sectors; its three business areas - Industry & Automation Solutions, Mobility & Wind Industries, Selcom Group - embody all the expertise and experience acquired over the years in the respective industries. Established in 1956, Bonfiglioli operates worldwide in 80 countries with 23 commercial sites, 17 production sites, a wide distribution network comprising more than 550 partners, and can count on over 5.000 professionals. Excellence, innovation, and sustainability are the drivers behind the growth of Bonfiglioli as a company and team and represent the guarantee of the products and services quality offered to its clients.

More information available at www.bonfiglioli.com.

Media relations | Lbdi Communication – Beatrice Cevolani – b.cevolani@lbdi.it – Chiara Ravanelli– c.ravanelli@lbdi.it Ginevra Fossati – g.fossati@lbdi.it Tel. + 39 02 43 91 00 69 – Viber LBDIPR Europe

Internal & External Communication Manager | Bonfiglioli - Laura Manfredi - Laura.Manfredi@bonfiglioli.com