

PRESS RELEASE



Supporting customers with a comprehensive industrial automation ecosystem

Calderara di Reno, Bologna 25th November 2025 – At SPS Nuremberg, the leading industry highlight for smart and digital automation, Bonfiglioli is showcasing its **comprehensive ecosystem** of **mechatronics**, combining gearmotors, inverters and sensors with **automation software tools**. A special focus is given to the newly expanded Axia drive family, while five mechatronic packages dedicated to applications for rolling conveyor, palletizer, flowpack, compact warehouse elevator and material handling complete the range displayed at the exhibition.

The Axia family of drives is growing

Bonfiglioli expands its successful Axia family of drives with the introduction of the new **AxiaAgile** series. Together with the well-established **AxiaVert** series, AxiaAgile completes the Axia portfolio, offering an ideal solution for a wide range of automation and motion control applications. While **AxiaVert** addresses high-performance and complex applications thanks to its **modular architecture**, extensive functional safety options and advanced motion control features, **AxiaAgile** provides a compact, cost-effective solution for general-purpose applications. Based on a **concept of variants**, AxiaAgile is designed to meet different application needs and offers dedicated configurations that simplify product selection and reduce engineering time. The four variants Basic, Standard, Enhanced and Advanced are developed for sensorless or simple closed loop applications and support different fieldbus systems. AxiaAgile offers integrated Safe Torque Off (STO) functionality, with highest performance level and reliability. Sharing the same industrial design, commissioning and diagnostic tools, and user-friendly software environment (**AxiaManager** and **Axia Manager Mobile**), both AxiaAgile and AxiaVert ensure an intuitive user experience and seamless integration. The use of common accessories and software simplifies setup, parameterization and maintenance, while preserving the customer's application know-how.

AxiaVert meets the highest functional safety standards and provides STO, SS1 and SBC, or motion safety functions SLS, SLP and SOS. Furthermore, AxiaVert excels in EtherCAT FSoE communication integration, significantly reducing engineering and cabling costs by transmitting all safety communications between the inverter and PLC via the fieldbus. With AxiaVert covering power ratings up to 15 kW and AxiaAgile up to 11 kW, the expanded Axia family delivers maximum flexibility, scalability and performance to meet the specific needs of diverse industries – from material handling and intralogistics to packaging, textiles and automated storage systems.

Smart, connected, secure: Bonfiglioli's IoT solutions transform maintenance and system management

Bonfiglioli tackles major challenges in industrial machinery, such as downtime and high maintenance costs, by providing IIoT solutions that include **Condition Monitoring** and **Predictive Maintenance**. The IoT platform utilizes Bonfiglioli sensors to monitor gearboxes and motors, collecting vital performance and energy data. These sensors combine accelerometer, magnetometer and temperature functions which are externally transmitted through a decentralized gateway. Smart sensors capture real-time data on parameters such as vibration and temperature, identifying issues before they escalate and allowing maintenance to be scheduled only when needed. An **IoT Bench** offers live demonstrations of sensor activity at the booth.

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From products to integrated solutions: Bonfiglioli showcases its automation software tools

At SPS Bonfiglioli introduces its Automation Manager, a software suite integrating all digital tools designed to provide complete synergy across Bonfiglioli product portfolio, throughout every stage of the machine lifecycle – from selection to diagnostics. The Automation Manager is composed of **Electronic Management tools**, facilitating the commissioning, monitoring and diagnostic of our solutions, and **Software Tools**, helping customers selecting, sizing and optimizing products. The former includes **AxiaManager**, dedicated to the configuration, management, and commissioning of the Axia Family inverters, enabling users to easily parameterize drives, monitor performance, and run diagnostics during startup, operation or maintenance. The **IoT Manager**, focused on managing the company's IoT architecture, allowing users to configure connected devices, deploy firmware, monitor field data, and set system parameters. While the latter includes **Smart Sizer**, that assists customers in selecting the right components for specific applications by enabling users to input load, speed, and duty cycle parameters; the **Efficiency Tool**, allowing for the comparison of energy performance across different combinations of motors and drives, quantifying consumption, losses and efficiency; finally, Bonfiglioli's **e-shop** designed to streamline the customer journey, enabling product selection and online ordering for the entire range of products, including gearmotors, gearboxes, and inverters. Thanks to the Bonfiglioli Automation Manager, all Bonfiglioli products and software, communicate within the same ecosystem guaranteeing a simple and optimized customer experience from sizing to monitoring.

Supporting material handling operations with AMRs...

Autonomous Mobile Robots are essential to simplify intralogistics process flows. For this sector, Bonfiglioli presents the **BlueRoll Platform** featuring 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. In Nuremberg, visitors can see the AMR, an autonomous truck robot designed to tow carts and workbenches weighing up to 250 kg. What sets it apart is its innovative lateral coupling mechanism, which delivers unique technical and mechanical benefits. This pioneering system ensures secure traction and optimal wheel grip, even on uneven surfaces. Its motorized wheels and electric drive, fully custom-engineered by Bonfiglioli, provide maximum efficiency, flexibility and performance.

... and Bonfiglioli's top-notch packages

Bonfiglioli offers complete mechatronic packages featuring motor, gearmotor and inverter, specifically developed for parcel & post applications. For flow pack packaging processes, Bonfiglioli proposes a solution incorporating a **BMD synchronous servomotor**, a **helical bevel gearbox of the A Series** and the **AxiaVert inverter**. Same motor and inverter, but different gearbox are applied to palletizers – here the **precision planetary gearbox** belongs to the **TQ Series**, which is appreciated for its high torque density, high overload capacity, exceptional precision and low vibration. For compact warehouse elevators the solution integrates, besides BMD and AxiaVert, a **helical parallel-shaft gearbox of the F Series**, guaranteeing high efficiency and reliability and low-noise operation. For intralogistics processes, more specifically rolling conveyor, the solution presented at SPS combines the **EVOX CP coaxial gearbox**, with a modular, reliable and energy efficient IE3 **asynchronous MXN electric motor** and the AxiaVert Premium drive. Finally, for smart conveyors, a helical bevel gearbox of the A Series is showcased coupled with a **synchronous reluctance BSR motor** and a **sensorized decentralized DGM inverter**.

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Bonfiglioli and Selcom: a perfect synergy for advanced mechatronic innovation

As part of the Bonfiglioli Group, Selcom is presenting its custom electronic solutions at SPS Nuremberg, showcasing a comprehensive portfolio of high-performance **mechatronic** and **system integration technologies**. Each solution reflects the company's dedication to **cutting-edge standards** and **customer-tailored engineering**. Among the highlights are PLCs, sensors, TFT touchscreens, DC-DC converters for battery-powered systems, inverters and an induction welding generator, all demonstrating Selcom's versatility and client-oriented mindset. Taking center stage is Selcom's new Industrial PC, equipped with seven GBIT Ethernet ports capable of managing six different networks plus a dedicated commissioning port. Available with four USB ports and a display port, the system offers exceptional connectivity and operational flexibility, a true example of Selcom's commitment to innovation and integration excellence.

By combining innovation, digital intelligence and reliability, Bonfiglioli continues to drive the transformation of industrial automation, empowering customers to build smarter, more efficient and connected systems.

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 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.

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