

PRESS RELEASE



Bonfiglioli centre stage at METEC with customisable mechatronic solutions for the steel and metalworking industry

Calderara di Reno – xx June 2023 – Steel and metalworking have always played a key role in many different industries, from the automotive sector to renewable energy and architecture. Such a wide variety of applications results in continuous technological innovation and the need to develop increasingly advanced, customisable and easy-to-assemble solutions. In this context, Bonfiglioli, leader in the production of mechatronic solutions, offers complete power transmission packages and various services including IoT solutions. Bonfiglioli's strength lies in the combination of consolidated know-how with a broad product portfolio, which allows the company to successfully co-design effective solutions together with its customers, providing support for simple and complex production processes.

Bonfiglioli is a global leader in the production of planetary gearboxes, manufacturing everything from precision gearboxes with torques in the 20-1000 Nm range used in the field of robotics and automation, up to heavy-duty products with torques over 2M Nm designed for the most demanding applications. Their range of motors includes asynchronous, brushless and synchronous reluctance solutions with integrated switchboard inverters, available up to 400kW, or decentralized inverters available up to 22 kW, which make it possible to reduce the wiring costs and installation times of each drive.

In detail, the 11th International Metallurgical Trade Fair **METEC** was the perfect occasion for Bonfiglioli to present three exemplary solutions, configured to meet the typical application requirements of the iron, steel and metalworking industries.

The first solution for heavy-duty roller conveyors in casting and rolling mills demonstrated the company's ability to offer custom packages thanks to its broad product portfolio and consolidated technical know-how. **Planetary** (such as the **300 Series**) or **helical gearboxes (F, C and HDP Series)** can be integrated with accessories and completed with electrical components, defined on the basis of specific customer needs.

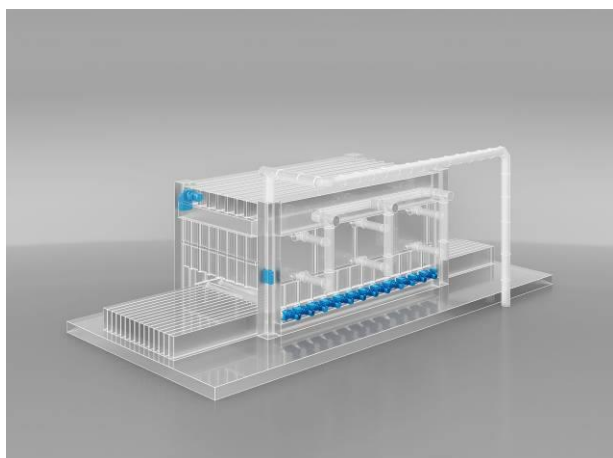
As regards the annealing process, a servo system for opening furnace doors was displayed, featuring a **helical parallel-shaft motorised** solution with IE3 efficiency and **cabinet control**. Another roller conveyor version designed for less harsh environments combined a robust and compact **300 Series planetary gearbox**, extremely versatile thanks to its modularity, with an IE4-certified **BSR synchronous reluctance motor** without permanent magnets, controlled by a **DGM decentralised inverter** for precise and sensorless roller speed control. This package is characterised by high energy savings and efficiency at the same torque, ensured by the motor configuration which works cold and requires no further accessories.

PRESS RELEASE

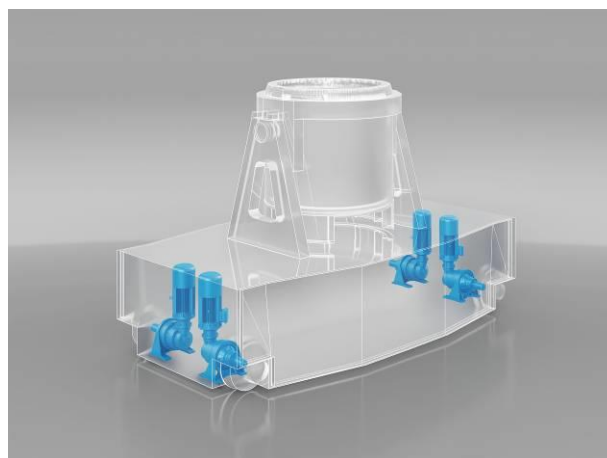


Finally, Bonfiglioli presented a motorised IE3 **planetary (300 Series)** solution for ladle transfer carts, with a dedicated and customisable **IoT** platform. Downtime, sudden breakdowns, high maintenance costs, short life spans and collateral damage to assets are some of the greatest issues faced by industrial machinery manufacturers and operators. As a technological partner, the Bologna-based group offers an all-round experience that includes IoT platform technology, predictive maintenance and condition monitoring services, as well as post-sales assistance. Bonfiglioli responds to customer needs to monitor the general status of gearboxes and motors with its IoT platform, thanks to the presence of sensors capable of measuring performance, consumption and cycle times by monitoring significant parameters such as vibrations or temperature. The predictive maintenance service helps prevent damage and downtime by making key data accessible to predict technical assistance interventions in advance.

All Bonfiglioli solutions are designed with a view to energy efficiency, in line with the expectations of a sector that is increasingly focused on sustainable production.

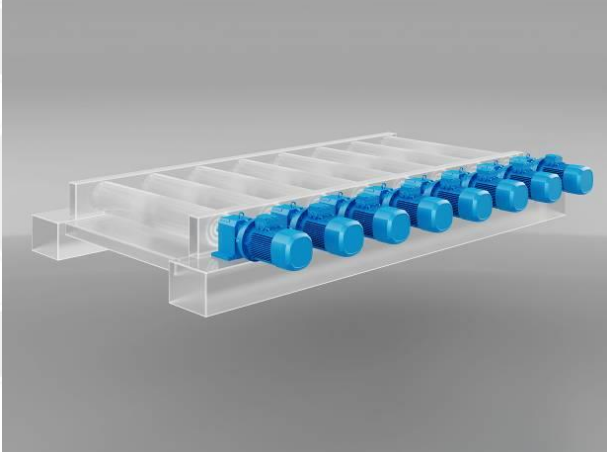


Solution for furnaces



Solution for ladle transfer carts

PRESS RELEASE



Solution for roller conveyors



Bonfiglioli at Metec

Bonfiglioli Group

Bonfiglioli designs, manufactures and distributes a wide range of gearmotors, electric motors, planetary gearboxes and inverters, capable of satisfying the most complex needs in the industrial automation, mobile machinery and renewable energy sectors. The Group offers complete solutions that serve more industries and applications than any other gearbox manufacturer and is the market leader in many areas; the three Business Units, Discrete Manufacturing & Process Industries, Motion & Robotics and Mobility & Wind Industries, express all the experience and skills acquired over the years in their respective fields of expertise. Founded in 1956, Bonfiglioli operates in 80 countries with 26 commercial sites, 20 production sites, an extensive distribution network that includes over 550 partners, and can count on over 4,700 professionals worldwide. Excellence, innovation and sustainability are the drivers that guide Bonfiglioli's growth as a company and as a team and represent the guarantee of the quality of the products and services offered to its customers. Further information is available on the website www.bonfiglioli.com.

Media relations | Lbdi Communication – Chiara Arrigoni – carrigoni@lbdi.it – Laura Sponziello – lsponziello@lbdi.it Ginevra Fossati – gfossati@lbdi.it Tel. + 39 02 43 91 00 69 – Skype Lbdi_PR

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