

From waste to value: Bonfiglioli drives sustainable innovation at IFAT 2026

Calderara di Reno, Bologna, May 4th 2026 – True to the motto “Engineering Sustainability”, Bonfiglioli conceives, designs and produces custom solutions for collecting, downsizing and sorting waste materials with the aim of maximizing recycling efficiency. It is in this spirit that Bonfiglioli participates at IFAT 2026, the leading international platform for environmental technologies, taking place in Munich from May 4th to 7th. The Company will showcase its complete **solutions** for **recycling processing, biogas generation and wastewater treatment**.

Complete drive technologies for the entire biogas value chain

Biogas is an environmentally friendly, renewable energy source produced through the anaerobic digestion of organic matter. Bonfiglioli supplies solutions for plants that produce biogas from both municipal solid waste (MSW) and agri-food or agricultural waste. **For MSW processing, the entire chain is covered:** from the digestate pre-treatment with shredders and depackagers to biomass feeders, and finally agitators for anaerobic digesters and solid-liquid separators. The solution showcased at IFAT for anaerobic digesters integrates three core components: a **300 series planetary gearbox**, an **EVOX BXN series asynchronous induction phase motor** – a modular electric motor with built-in DC brake – and the **AxiaAgile smart inverter**. The latter features a variable “cut position” for smaller particles and the energy-saving functions to ensure reliable system operation.

The 300 series remains a flagship product due to its extraordinary versatility. Beyond the shredding and depackaging phases, it ensures efficient power transmission in **biomixers and agitators**, where it excels in both **horizontal and inclined setups**. In anaerobic digesters, it guarantees high peak load capacity and top-tier mechanical performance. This compact series combines high torque capabilities and high shock load resistance with simplified maintenance and **ATEX certification**. ATEX certification is essential for operating in potentially explosive atmospheres and makes Bonfiglioli’s gearboxes ideal for small-to-medium-size biogas plants, where the entire processing line is often concentrated within a single operational environment. The **planetary technology**, delivers performance comparable to traditional helical-bevel gearboxes, but with **reduced weight and a more compact footprint**, offering a better cost-performance ratio for OEMs.

Powering primary shredding in demanding recycling environments

In recycling, **primary shredding** is critical for preparing material for downstream sorting or secondary shredding. Bonfiglioli offers the **R3 Series double planetary gearbox**, the ideal choice for all severe-duty applications where shock loads and impacts are frequent. This series is highly flexible, offering numerous options for mounting, gear layout, output shafts, and motor interfaces. Depending on the required torque and machine layout, the gearbox can be equipped with **1, 2, or 4 hydraulic motor adapters**. These are also available in **electric versions**, reflecting the growing trend of electrification across the industrial and recycling sectors.

For shredder mobility, Bonfiglioli also provides customized **electric track drives** dedicated to **undercarriages**. The **700C Series planetary gearbox** features rotating housing, multiple ratios, and an integrated disc brake, ensuring smooth operation and a long product life.

Efficient compact solutions for wastewater treatment

Wastewater treatment requires reliable solutions to ensure uninterrupted operation. Bonfiglioli's energy-saving solutions for filters, mixers, and aerators focus on precise speed control and high durability. The solution showcased for **aerators** features the **HDP series helical parallel geared motor**, applied to the rotating system which generates fluid movement. Thanks to its robustness and high overhung load capacity, it withstands radial loads and thrives in aggressive atmospheres. Key strengths include its space-effective U-shape arrangement and transmissible torque up to 210,000 Nm.

For **screw conveyors**, the IFAT display combines the **F Series shaft-mounted geared motor**, synonym for high efficiency, reliability, robustness, and low maintenance, with the **AxiaAgile smart inverter** and the **asynchronous three phase motor of the BX Series**. This setup, featuring optional IP56 protection, tropicalization, and anti-condensation heaters, is specifically designed for harsh environmental conditions.

Bonfiglioli's participation at the IFAT 2026 highlights its ongoing commitment to driving a more sustainable future. This vision informs every aspect of its innovation, from product development to operational processes, all guided by circular economy principles. In line with the objectives of the event, the company focuses on delivering technologies that turn waste into valuable resources, harnessing IoT to enhance efficiency, and continuously working to minimize its environmental impact.

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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