



New material handler with hybrid system for demanding scrap recycling: The SENNEBOGEN 850 G Hybrid

IMAGE SOURCE: SENNEBOGEN Maschinenfabrik GmbH

New SENNEBOGEN 850 G series material handler with Green Hybrid system

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- SENNEBOGEN introduces the 850 G Hybrid material handler, featuring the Green Hybrid energy recovery system for enhanced efficiency and reduced fuel consumption.
- The 850 G Hybrid is designed for demanding applications such as steel scrap and port handling, with versatile equipment options and customizable configurations.
- The machine is powered by a 231 kW Stage V diesel engine, offering reduced fuel consumption and noise emissions, with eco settings for environmentally friendly operation.

- The redesigned Maxcab provides improved driver comfort and safety, featuring a 10-inch touch display, ergonomic design, and advanced air conditioning.
- The new SENcon control system enhances communication capabilities, allowing remote diagnostics, software updates, and cost savings for fleet operators.
- The 850 G Hybrid will be showcased at bauma 2025 in Munich, highlighting SENNEBOGEN's latest advancements in material handling technology.

More economical, faster, more comfortable - these are the keywords that can be used to describe the new generation of material handlers from SENNEBOGEN. In the medium size class with an operating weight from 62 t, the versatile 850 in the G series has been relaunched and not only equipped with the new Maxcab including a new control system, but also enhanced with the Green Hybrid energy recovery system.

The G-series is the new benchmark in the medium size class of material handlers too. Particularly developed for demanding steel scrap handling and port handling, the SENNEBOGEN 850 can also be used in a wide range of applications, not at least due to its diverse equipment options with reaches between 17 and 21 meters. SENNEBOGEN's proven modular design principle also allows the new 850 G Hybrid to be **configured according to customer requirements**, including with undercarriage variants from stationary to mobile. Equipped with the new SENcon control system and the **Green Hybrid recuperation system**, the machine also proves to be extremely economical and efficient.

Maximum performance with great energy savings thanks to the Green Hybrid recuperation system

The new 850 G Hybrid combines impressive performance with state-of-the-art technology. The speed of the work functions - and therefore also the handling performance - has been improved and **fuel consumption significantly reduced** at the same time. A bonus for the environment and your wallet.

As part of a rightsizing, the new material handler now has a **highly efficient 231 kW Stage V diesel engine**, which runs at a standard speed of 1725 rpm. This not only reduces fuel consumption, but also the machine's noise emissions in the long term. Special eco settings and the **option of fueling the machine with HVO** enable particularly environmentally friendly operation. Large-dimensioned hydraulic valves and lines allow the best efficiency levels to be achieved and provide relief for the pump system, enabling the **material handler to work in a particularly resource-saving** and efficient manner.

The absolute plus in energy saving and efficiency is achieved by the **Green Hybrid recuperation system** integrated for the first time in this machine size. The energy recovery system consists of a gas pressure accumulator installed in the rear of the machine and a third hydraulic cylinder on the boom. Similar to a tensioned spring, this system stores the energy generated when the boom is lowered in the nitrogen accumulator and releases it back into the lifting cylinders during the next lifting operation. This innovative energy-saving method has not only proven to be particularly **reliable and safe for over 12 years**, but also saves around 30% fuel - and therefore around 22 tons of CO₂ per year. At the same time, the machine's output is increased by 80 kW to a total system output of 311 kW.



The new SENNEBOGEN 850 G Hybrid impresses in terms of energy efficiency and handling capacity.

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More comfort and safety for the driver

The **redesigned Maxcab** installed in the 850 G Hybrid and the new-generation SENcon control system launched at bauma leave nothing to be desired for the driver. The standard cab elevation has been significantly stabilized by the centrally articulated cab lift cylinder and increased to 2.80 m, so that a **comfortable viewing height of 6.10 m** is achieved. An optional height of 6.80 m is even possible. The Maxcab impresses with a completely revised interior design that meets the highest standards of ergonomics and comfort. High-quality materials and a **well thought-out interior design** create a pleasant working environment, while the continuous large windows ensure a generous feeling of space. The **new and powerful automatic air conditioning system** and a total of 10 built-in air vents ensure an optimally tempered working environment whatever the weather.

The heart of the new Maxcab is **the 10-inch touch display**, which offers quick access to all important functions. In addition, the most important functions can be assigned to buttons and switches. This is because the machine can be personalized to the highest degree for the respective operator or a specific type of application as part of the **driver profiles**. The driver is also supported by intelligent assistance systems that not only prepare the machine for (partially) automated operation in the future, but also ensure optimized performance and increased safety when handling the machine now.



Equipped with the revised Maxcab comfort cab and the brand new SENcon control system of the latest generation, the SENNEBOGEN 850 G Hybrid allows fatigue-free working and maximum machine availability.

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Optimization potential and cost savings for the fleet operator

The **new SENcon control system** also increases the communication capability of the material handler, which is not only beneficial for the operator, but also for the machine owner or fleet operator. On the one hand, the **connection with the SENNEBOGEN telematics system SENtrack** provides the operator with a large amount of data, which allows him to derive analyses - for example on performance or machine condition. In addition, concrete cost savings can be realized by avoiding on-site customer service visits. **Networking with the SENNEBOGEN troubleshooter** helps the operator to rectify errors independently. On the other hand, **customer service** can connect to the machine and **offer solutions remotely**. **Software updates can also be installed remotely**. An important function that saves time and money and increases machine availability.

Further information on the new SENcon control system can be found here:

<https://www.sennebogen.com/news/news-presse/sencon-sennebogen-steuerungssystem-auf-neuer-technologie-plattform>

As with all machines in the new SENNEBOGEN G series, **the robust and clear machine design** and easily accessible maintenance points prove to be particularly valuable in terms of **ease of servicing**, as they ensure reliability and safety in day-to-day use of the machine.

On display at bauma 2025 in Munich

The new 850 G Hybrid will be presented to trade visitors at this year's **bauma** in Munich: as one of ten machines at the **SENNEBOGEN booth in the outdoor area FM.712, Messe München**.

Source: SENNEBOGEN Maschinenfabrik GmbH

MATERIAL HANDLERS