

MOVE IT

MAGAZINE

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June 2026

TÜRKIYE PORTS AND ITS 41 SENNEBOGEN MATERIAL HANDLERS



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BULK HANDLING

TOSYALI DEMİR ÇELİK: FLEET OF 41 SENNEBOGEN MATERIAL HANDLERS

In the heart of a large industrial zone in southern Türkiye, operations run around the clock. The atmosphere is dynamic, trucks are constantly on the move, cranes and vessels dominate the scene. This is home to one of Europe's most advanced steel plants: Tosyali Demir Çelik. Within a compact site, the globally active steel producer manufactures around four million tonnes of flat steel per year. To handle this immense flow of materials, Tosyali relies on 41 SENNEBOGEN material handlers.

SEAMLESS INTEGRATION OF PORT AND STEEL PLANT

The Iskenderun site combines steel production and a dedicated seaport in immediate proximity. Around 400 employees ensure the handling of approximately 13.5 million tonnes of materials annually. Steel scrap, iron ore, coal and other bulk materials are delivered via the port directly to the adjacent steel plant. Finished steel products including coils, profiles, pipes and rolled products are shipped from here to customers around the globe. A powerful and reliable material flow is essential to keep this operation running smoothly.

41 SENNEBOGEN MATERIAL HANDLERS

To manage this enormous logistics task, Tosyali requires a versatile fleet of material handling machines. "Between the port and the steel plant, Tosyali operates 41 SENNEBOGEN material handlers in various sizes," explains Okan Gök, mechanical engineer at SENNEBOGEN's service and distribution partner Fersen Makina. The range of applications extends from the compact SENNEBOGEN 835 E, ideal for sorting and feeding tasks, to the 895 E, the world's largest material handler, ensuring continuous ship handling operations at the harbor quay.



BULK HANDLING

GREEN PORT GIANTS WITH MAXIMUM REACH

As one of the first port customers, Tosyali invested in six SENNEBOGEN 895 E material handlers in 2021. Together with SENNEBOGEN, a configuration was developed that has since become a benchmark solution for numerous ports across Türkiye:

- CRAWLER PORTAL UNDERCARRIAGE WITH A SIX-METER PYLON
- HEIGHT-ADJUSTABLE OPERATOR'S CAB
- PORT BOOM WITH 40-METER REACH
- 500 KW ELECTRIC MOTOR
- FULL-OPERATION POWER PACK FOR WORKING WITHOUT AN EXTERNAL POWER SUPPLY

This combination enables fast, safe and efficient handling of vessels up to Post-Panamax class, providing a decisive advantage in daily port operations.

ELECTRIC DRIVES AS A KEY EFFICIENCY FACTOR

A clear trend in port handling is the transition to electric drive systems. They not only reduce local emissions but also significantly lower operating costs. "Most of the machines at Tosyali are electrically powered. This is far more cost-efficient than operating machines with diesel engines," emphasizes Okan Gök. Compared to diesel-powered equipment, operating costs can be reduced by up to 80 percent.

Reliability through Strong Partnership

High machine availability is ensured by SENNEBOGEN's service and distribution partner Forsen Makina, which supports customers throughout Türkiye. The number of units sold speaks for itself. "We have sold around 200 machines in this region alone. Across Türkiye as a whole, we have sold between 800 and 1,000 machines, mainly for port handling and recycling," emphasizes Gök.



EXHIBITION

PORT OF ARLES BETS ON FLEXIBILITY

Reporting directly from the inauguration in Arles, Move It Magazine witnessed first-hand the demonstration of the new Sennebogen hybrid crane as operators showcased its versatility across a range of cargo-handling applications. During the live demonstration, attendees were able to observe the machine's rapid attachment-changing capabilities, highlighting how quickly it can be adapted for different types of cargo, from bulk materials and timber products to bagged commodities and project cargo.

The inauguration marked an important milestone for the Port of Arles in France, which has invested more than €1.2 million in the new machine as part of its strategy to strengthen multimodal cargo handling operations. Bringing together representatives from the Chamber of Commerce and Industry (CCI) of the Pays d'Arles, logistics partners, port operators and equipment specialists, the event highlighted the port's ambitions to drive further growth while improving operational efficiency, flexibility and sustainability.

Speaking on behalf of CCI President Stéphane Bagliac, port representatives emphasised the unique identity of the Port of Arles as both a maritime and river port. Maritime traffic accounts for approximately two-thirds of the port's activity, while transshipment operations support a significant share of river traffic. Since coming under CCI management in 2002, the port has worked to strengthen its historic role as a gateway connecting maritime and inland transport networks.

During discussions with port officials and equipment specialists, flexibility emerged as one of the port's key strengths. Unlike larger ports that often operate under more rigid structures, Arles prides itself on its ability to adapt quickly to customer requirements and changing vessel schedules. The new crane was selected specifically to support this approach.

DESIGNED FOR MAXIMUM VERSATILITY

The Sennebogen machine has been configured to meet the diverse handling requirements of the port. Designed for maximum versatility, it can operate on maritime cargoes, river vessels and land-based logistics activities. Its quick-coupler system allows operators to rapidly switch between attachments, including grapples for scrap metal, clamps for timber, pallet forks for big bags and packaged goods, and specialised tools for handling bulk commodities.



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EXCLUSIVE



Representatives from Sygmat, Sennebogen's French distributor, explained that versatility was the primary requirement during the project's development. The machine's mobility allows it to move efficiently between different quays and operational areas, ensuring a fast response to changing cargo flows and customer demands.

SAFETY AND OPERATOR COMFORT

Safety and operator comfort were also major considerations. The crane features a large, elevated cab with extensive glazing, providing excellent visibility during loading and unloading operations. The forward-positioned cab allows operators to maintain clear sightlines into vessel holds and cargo-handling areas, helping to improve both safety and productivity.

The crane has also been adapted to the challenging operating conditions of the Rhône River, where water levels can vary significantly throughout the year. Its configuration enables efficient cargo handling despite fluctuations of up to seven metres between low and high water levels.

SUSTAINABILITY

Sustainability was another important focus of the investment. The Sennebogen crane incorporates hybrid technology that recovers energy during boom-lowering movements and reuses it during lifting cycles. This reduces engine workload and improves overall efficiency. According to figures presented during the inauguration, the system is already delivering fuel savings of around 30 percent compared with conventional machines performing similar operations.

Port officials also highlighted the contribution of the workforce operating the new equipment. The flexibility and customer-focused approach of the port's operational teams have been key factors in supporting traffic growth in recent years, helping Arles build a reputation for responsive and reliable service.

More than simply a new piece of equipment, the crane represents the port's wider ambitions for future development. Combined with ongoing plans to improve infrastructure, security and services for logistics personnel, the investment demonstrates the Port of Arles' commitment to strengthening its position as a modern multi-modal logistics hub serving both maritime and inland waterway markets.