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The Evolution in Entrance Systems

The Next Generation of Masats Products

After years of supplying electric and pneumatic door systems to the bus, coach and minibus industry as well as access ramps and lifts for PRM, Masats entered the railway sector in 2008 with a new range of doors and access systems. In 2016, Masats launched a new division with products for station infrastructure: PSD platform screen doors and gap fillers for stations.

The company's purpose is to improve **people's quality of life** through better mobility. With this objective in mind, and thanks to its international presence and customer service spirit, Masats is designing more technological products to improve safety, reliability, availability and maintainability all while offering operators and end users added value.

Always prioritising **sustainability**, Masats has designed a new generation of smaller, lower-weight products to help reduce vehicle fuel consumption and, as a result, generate less end-of-lifecycle waste.

The latest ECU, the **Evolution**, is a Masats electronic control that has been developed to provide operators with maximum reliability and added value. The ECU is also prepared to obtain information from vehicle operating data in order to report on and optimise maintenance operations. With an artificial intelligence platform that analyses the data, the company can predict breakdowns and take the necessary

maintenance measures when appropriate and, thus, increase vehicle availability. It allows maintenance to be planned, which leads to lower lifecycle costs with this move from preventive maintenance to **predictive maintenance**.

Vehicle accessibility systems are critical for improvements as predictive maintenance can reduce forced vehicle downtimes and optimise maintenance operations.

This predictive maintenance is currently being pilot tested on buses in Madrid, Barcelona and Singapore with very encouraging results. The potential behind this system has been measured based on the analyses carried out to date. In view of the data collected, predictive systems are expected to increase vehicle availability up to 50%, reduce lifecycle costs by 45% (reducing incidents and unwanted vehicle stoppages in addition to preventive maintenance plans), and improve reliability by 150%.

The latest door systems in urban buses, such as the recently introduced **029i** inward sliding door, provide a high degree of safety with self-locking systems preventing unexpected openings which would otherwise negatively affect passenger safety. The high durability of the doors, which is achieved through exhaustive homologation testing, is worth highlighting. Their speed (opening in less than two seconds) reduces waiting times, which helps improve services and save time. Their smooth movement also results in lower lifecycle costs.



The new electric sliding door **028d SLIM** with harmonious movement, perfect sealing and a compact low-height (153mm) mechanism completes the next-generation urban product range.

For the coach segment, **Swyncro** is the flagship outswinging door product. The smooth movement, which is completely horizontal without any wedges or stabiliser bars, enables perfect sealing and eliminates rolling noises, thereby boosting passenger and driver comfort.

Ensuring everyone accessibility to all types of vehicles is the Masats social commitment. We offer **access devices** designed to improve the experiences of people with special needs featuring the electric telescopic ramp RT1, the manual ramp RM2, or the electric ramp RE1 integrated in buses. We also produce lifts for coaches, with models that can be installed in the stairs or a dedicated door. They are included in the KS7 and KV5 lift ranges.

At the same time, Masats is also taking advantage of digitalisation opportunities to provide better customer service with the development of a personalised customer

portal and an after-sales application. Besides information on the assistance network, the **customer area at the [masats.es website](https://www.masats.es)** offers new applications and services like access to the new Spare Parts and Documentation Portal, spare part traceability through the “tracking label” included on each product and a customer Extranet that provides access to information on pending orders and shipment tracking. The all-new Masats Assist application on the new website is also available for official workshops and large operators. This tool was developed to manage warranties and repairs.

Masats is an international benchmark in accessibility systems for public transport, including access doors, ramps and lifts for people with reduced mobility for both buses and trains. It is also active in the infrastructure sector, improving passenger safety and mobility with platform systems such as its PSD platform screen doors. With a plant in S. Salvador de Guardiola (Barcelona) employing more than 300 and a production subsidiary in Kennesaw (USA), it exports to more than 45 countries.

mar.alapont@masats.es
[masats.es](https://www.masats.es)



DESIGNING A MORE ACCESSIBLE WORLD

ACCESSIBILITY SYSTEMS FOR PUBLIC TRANSPORT



DOORS FOR BUSES



DOORS FOR ROLLING STOCK



ACCESSIBILITY SYSTEMS



PLATFORM SCREEN DOORS PSD

