



Bianchi Casseforme S.r.l., 43045 Fornovo di Taro (PR), Italy



Innovation 4.0 and safety

The two companies Bianchi Casseforme and Brigade Elettronica share a good partnership, which was born from the intuition of the company founders and their willingness to innovate. Brigade Elettronica introduced the first acoustic reversing alarm in Europe just over 45 years ago; over the years, the company has specialised in vehicle safety and consolidated its position in this sector. Bianchi Casseforme built the first metal formwork in Italy in the early 1960s, which then replaced wooden formwork, and in the 1980s the company developed "Speedy" after Mario Bianchi saw a prototype of the machine in the USA. A versatile, economical and above all fast and reliable concrete spreader with 3 to 4 m³.

This machine was the turning point for the company, which already had great success in the precast concrete industry. So, in the 1990s the company entered the European market, focusing on Spain and from 2008, the world market. It's export share today represents almost 65% of total turnover.

The business activities are aimed at the precast concrete market and include formwork for concrete elements for industry, trade, construction and residential construction, concrete distribution systems, complete plants and circulation systems for automated production, magnetic systems, prestressing systems and vibrator systems as well as accessories for lifting and attaching.

Today, almost sixty years after its foundation and with the third generation of owners already working in the company, Bianchi Casseforme continues to follow the path set by its founder, relying on its innovative and forward-looking technologies, such as the new Speedy electric concrete spreader, which is currently in the development phase. The current version of the concrete spreader is powered by a diesel engine; but the electric model, soon to be launched, is certainly an optimal choice, also to comply with increasingly stringent emission regulations, especially in cases where work has to be carried out in completely closed environments, as often



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Front camera

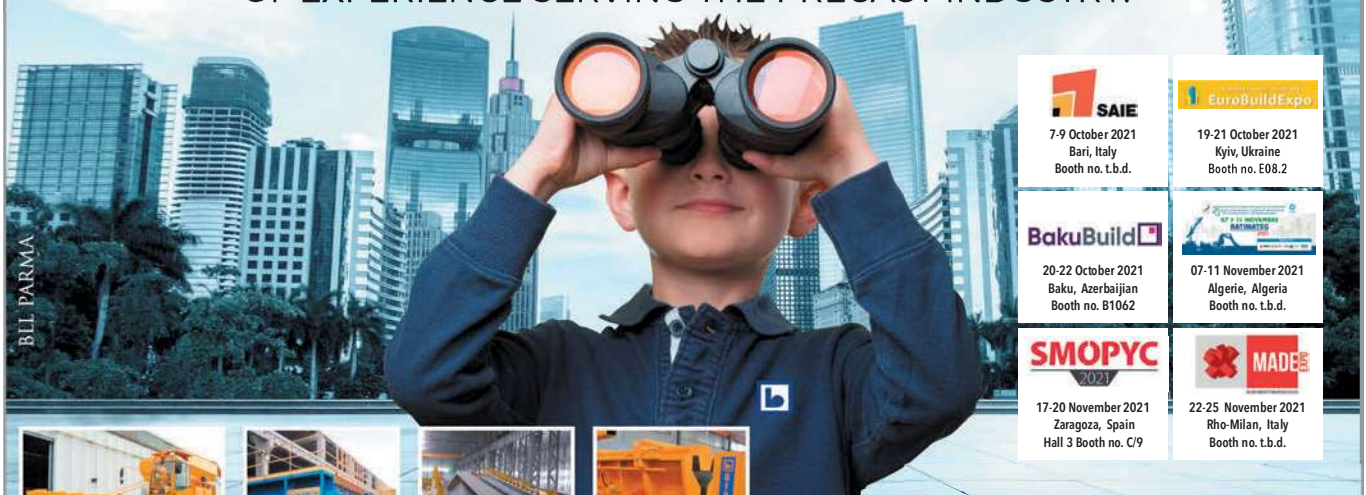
happens in Italy and in Europe. There are therefore no restrictions on the use of this new machine and it is approved for all countries. A new challenge for the Bianchi Casseforme company, which has many years of experience and exclusive know-how, with a production of ten to 20 machines per year and a park of more than 400 machines installed worldwide.

Technology and safety

To guarantee maximum vehicle safety, Bianchi Casseforme relies on Brigade Elettronica, the market leader in vehicle safety systems. Bianchi Casseforme has installed Brigade Elettronica safety systems in almost all the machines built. These include the Backsense® radar sensors and the Backeye®360 system with cameras and screen. Backsense® works with a modulated continuous wave radar (FMCW), which guarantees precise and immediate detection. The radar sensors' radius of action can be configured to a width between 2 m and 10 m and a distance between 3 m and 30 m, depending on the vehicle, and customised detection zones are possible to exclude fixed objects or body parts. Backsense® is characterised by its extremely

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Backeye®360 is a camera system with 360° vision all around the vehicle that uses appropriate software to process the images from the four ultra-wide-angle cameras into a single image, combine them and display them in real time on the monitor in the driver's cab.

robust design and features a five-level display with easy-to-read indication and corresponding acoustic alarms. This device is assembled by Bianchi Casseforme to meet heavy duty requirements and it allows the processing of 130 m³ of concrete per day in efficient and safe conditions.

Backeye®360, on the other hand, is a camera system with 360° all-round vision around the vehicle that uses appropriate software to process and combine the images from the four ultra-wide-angle cameras into a single image that is displayed in real time on the monitor in the driver's cab. In addition, Backeye®360 offers the possibility to activate specific views with different triggers and the screen can be split to display the whole vehicle and a specific area at the same time. A system that eliminates blind spots and protects people. Bianchi Casseforme was able to install this system easily on the Speedy concrete spreader because the cameras are mounted on top of the vehicle and rotate together with the moving part of the machine. The monitor installed in the driver's cab is the more durable 7-inch waterproof model.

Industrie 4.0 Ready

The real innovation, not only in terms of safety, is the connection of Backeye®360 to the MDR mobile DVR in the Wi-Fi and 4G version, which meets some of the criteria required to make the machines compatible for Industry 4.0 applications. The MDR not only records and stores the camera shots, but also allows the machine to be connected to the server in the company and monitored in real time. Its functions include geolocation, sending data about alarms on the machine and live displaying work phases with the possibility of intervening when faults occur. These features have attracted the interest of Bianchi Casseforme's customers. Bianchi Casseforme has thus confirmed its willingness to innovate and has taken an in-depth look at the Industry 4.0 directive in order to provide customers with advice on the choice of the most suitable devices for them - from Brigade Elettronica, of course. ■

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Side camera



Backsense

FURTHER INFORMATION



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