

CIFA comes back to Ecomondo with Energya, the electric brand

Energya's E9 full-electric truck mixer on display: battery-electric mixer mounted on BEV truck

Rimini, Ecomondo (Italy) - 7 November 2023 | CIFA is back at Ecomondo after many years with the **latest addition to Energya - the electric brand: the E9 electric mixer truck mounted on a Volvo chassis, a 100% electric vehicle that works in a fully sustainable manner**. Energya - CIFA's brand with the first and only range of electric machines in the concrete sector - aims to **reduce CO₂ emissions and noise pollution on the construction site to zero**, helping to make the transport and laying of concrete more environmentally friendly. Thanks to the electrical operation, new opportunities are opening up for the use of heavy-duty vehicles, particularly in densely populated historic centres and on sites with restrictions, where lower environmental impact is an added value.

Davide Cipolla, CEO of CIFA: *"The Energya brand has been a revolution for the sector ever since its launch in 2013, presaging such current concerns as the importance of **electrification** for sustainability, **automation** and **connectivity**. Indeed, these have become prerogatives for all CIFA machines – by using the digitisation of management systems and remote monitoring. We are proud to have been pioneers in a traditional sector such as the concrete industry, which is becoming aware of the need to change and adapt in an evolving global situation. "The concrete sector has three approaches to achieve the objectives of the **2030 Agenda**: the introduction of **low-impact materials and processes**, **durability of the equipment** and **the reduction of CO₂ emissions on the construction site**. We have worked and will continue to work on reducing emissions of the Energya series, but we also want to go one step further and focus on **durability and safety**. We know very well that we are one of many nodes in a global network, that of the construction industry, extended in space and time. Not only the construction of products, but **all actions have a lasting impact on the environment and on people**, and we are responsible for the use of every resource throughout the supply chain all the way to the construction site where our work comes to fruition. That is why we are also implementing **sustainable projects** for all our corporate activities, from the factory to the offices."*

Marco Polastri, Sales Aftersales & Marketing Director: *"Energya has become a brand with a **business unit** in its own right, formed of a team of specialists committed to its development, including in terms of sustainability, both at the level of the product and in terms of economic solutions for customers (for example, by devising local ways that can help with conversion of the fleet), providing a real consultancy service for those who share our green vision."*

How does the E9 full-electric mixer work?

The E9 mixer is based on a drum drive system that combines the advantages of using the **truck's energy with that of the mixer's lithium battery**. In traditional cement mixers the movement of the drum is generated



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by a hydraulic system; in Energya truck mixers, on the other hand, it is generated by an electric induction motor that receives energy from a lithium ion battery, present on the same kit. These batteries store sufficient power for an entire working day. In the extreme case that the batteries of the mixer run out, it can draw power from the power take-off of the electric truck itself, recharging the battery in about an hour.

The **E9 system** is compatible with both 220 V and 380 V outlets. Charging times vary from 8 hours with a standard system and are reduced by up to one hour if the column designed by CIFA is used. In case of public recharging columns, the time varies according to the available power. The **truck**, on the other hand, is a **Volvo FMX** with 330kW of continuous power, 4 tridem axles, and 4 batteries of 360 kWh, rechargeable in 10 hours with AC and 2 hours with DC. **The range on the road is about 200 km.** On a typical working day, during which the vehicle travels between 120 and 200 km, approximately 30 kWh are required to run the mixer itself. **The E9 system, thanks to its batteries, avoids consuming energy to move the drum and the autonomy of the chassis remains the same.**

The E9 mixer has an advanced control and management system. In fact, all the information relating to the state of use and operation of the mixer can be checked at all times on the monitor installed in the driving cab of the truck. It is therefore possible to check all parameters and activate or manage the various functions while keeping an eye on the charge level of the battery. There is an identical monitor at the back of the vehicle where there is also an analogue control pad.

About CIFA

CIFA is a leading manufacturer of concrete-working machinery and equipment with a consolidated presence in the Italian and global markets. CIFA has been part of the Chinese industrial group Zoomlion since 2008 and is an international company with sales and support networks all over the globe. The company provides its customers not only with reliable, high-quality products but also with financial support through Zoomlion Capital Financial Services. For further information, visit the website www.cifa.com

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