

Siemens and Aliauto: ideas turned into reality, with an eye to energy efficiency

A partnership oriented towards technological innovation
and sustainability

Location: Modena (MO), Italy

Highlights:

- State-of-the-art and flexible drive-train system
- Reduction of energy consumption
- Web-based and future-proof human-machine interface
- Security inside



Aliauto Italia S.r.l.

Aliauto Italia S.r.l. is a cutting-edge company specialized in the design of and construction of test benches for hydraulic and mechanical components with high technological content. The company's mission is to provide reliable, secure solutions and durable, guaranteeing high quality standards thanks to the use of innovative technologies and components from the best brands on the market. Aliauto is also committed to: to promote the culture of testing, contributing to the spread of increasingly advanced and punctual testing techniques.

Solution/Portfolio

The partnership was born with the aim of innovating the way machines work, introducing new concepts and ideas.

The main requirement was energy efficiency, obtained by increasing performance compared to previous test benches, through a very innovative machine interface. Siemens proposed a complete solution, which includes the SENTRON electrical protection part, SIMATIC S7-1500 control systems, SINAMICS S120 drives, and motors 1PH8.

Through Sinamics S120 and the shared DC bus, consumption has been reduced to a tenth of the installed power of about 600 kW and, with its ACTIVE LINE power supply, the customer's network remains clean of harmonics and reactive energies, confirming Siemens and Aliauto's common commitment to a sustainable future.

Thanks to the UNIFIED web-based HMI interface installed on a 22-inch panel PC and all the screen-printed buttons, Siemens has made the operators' approach to controlling the machine intuitive and simple, while maintaining a high standard of security.

Benefits

This collaboration is an example of excellence in the adoption of innovative and digital technologies, which ensure the efficiency of the energy consumption of machines and their sustainability.

Bringing new ideas and solutions to test systems, made possible by Siemens' advanced solutions, optimizes power consumption and improves performance and reliability.

"The collaboration with Siemens has led to the creation of Power Trade: an exclusive and innovative machine with a 4-wheel drive transmission. It is among the largest

and powerful never before and Siemens played a key role in making it a success."

Matteo Pinca,
CEO Aliauto
Italia



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