

Osiris Agriculture

A progressive support towards an optimised solution

Relying on Cetim's technical and normative expertise, Osiris has guaranteed the conformity and optimised the autonomy of its irrigation robot for marketing purposes in Europe.



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OUR CUSTOMER

Corporate name
Osiris Agriculture

Workforce
17 people

Turnover
200 000 euros in 2024

Business activity
Development of an autonomous robot capable of automating irrigation, fertilisation and crop protection tasks for potatoes and vegetables, for a smooth and profitable agro-ecological transition.

To overcome the labour shortages and save water resources, Osiris has developed Oscar, an innovative autonomous robot for the irrigation of industrial crops such as potatoes and beans. “Oscar not only reduces labour time, but also cuts water consumption by 30% and energy consumption by 20%”, explains Rodolphe Cockenpot, co-founder and Chief Executive Officer of Osiris Agriculture. For this type of autonomous machine, safety is crucial. To ensure that the robot complies with European regulations, guaranteeing users optimum safety and electromagnetic

harmlessness in relation to surrounding equipment, the start-up turned to Cetim.

Increased skills as a bonus

With its expertise in the Machinery Directive, the Electromagnetic Compatibility (EMC) standard and the European Radio Equipment Directive (RED), the Centre's specialists were involved in a several technical and regulatory aspects, covering a wide range of fields: mechanical, electronic, hydraulic, programming, etc. “The risk analysis enabled us to define the areas of intervention with discernment, so as not to alter the spirit of the machine, continues Rodolphe Cockenpot. After each diagnosis, Cetim identified the problem and proposed an appropriate corrective solution.” In addition to a regular presence in the field and in-depth

technical exchanges, Cetim contributed to Osiris' skills development, enabling it to manage safety issues on its own in the future. Thanks to a progressive support, the young start-up is about to launch a robot operating in full safety mode. “Once EMC and RED compliance has been finalised in the second phase of the project, we will be able to offer Europe's first 100% autonomous robot incorporating not only intelligent watering but also spreading, fertilising and pest control functions”, concludes Rodolphe Cockenpot.

Cetim's asset



Multi-disciplinary expertise and the mastery of a standards monitoring are at the service of a pragmatic and gradual approach, to enable manufacturers to develop innovative solutions that comply with current safety standards.

