

CHALLENGES OF THE COMPANY HIDRIA	Searching for
Hidria.1: On the fly" checking of the mechanical properties of the electrical sheet at the input of the production line.	
Non-destructive characterisation of electrical sheet metal for integration into an automatic punching machine for the production of electric motor blades. Sensors need to be added to the production line to measure the mechanical properties of the electrical sheet "on the fly".	Researchers  Start.ups
The company is looking for partners to collaborate in the development of a method for the characterisation of sheet metal.	

## Hidria.2: Development of the induction battery heater.

magnetic and structural.

The heater must provide 9 kW of power at a supply voltage of 850 V, weigh less than 2 kg, and have a max. size of 250x200x100 mm.

Researchers

The company is looking for partners to help them develop the design of the heater holder. The heating method is induction heating, 'Omega' channel design/implementation, coil design and implementation, electronics implementation. The skills required are a good understanding of fluid dynamics, thermodynamics, materials science, electromagnetism, numerical fluid simulation (CFD),

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## Hidria.3: Developing silent fans for heat pumps and air conditioners

Development of new models of axial and centrifugal fans for use in heat pumps and air-conditioning systems, where energy efficiency and, above all, acoustic competitiveness are the criteria for commercial success.



Researchers

Start.ups

To achieve the latter, it is necessary to develop new geometries for axial elis and centrifugal wheels and other air flow control elements, the design of which will be innovative, unconventional and unencumbered by existing manufacturing technologies.

temperature and production parameters from harvesting to sale to the final consumer. Preparation	THE THOUSANT CHICAGO
Analysis of the possibility of digitising the olive oil production process with full traceability of location temperature and production parameters from harvesting to sale to the final consumer. Preparation	THE THOUSANT CHICAGO
temperature and production parameters from harvesting to sale to the final consumer. Preparation	THE THOUSANT CHICAGO
storage, formatting and distribution of information on each litre of oil, available to all those involved in production, distribution and final consumption. Possibility to integrate AI for olive species identification, video AI-assisted production control of pressing	Start.ups
Lisjak.2: Analysis of the use value of secondary olive pressing waste	
The olive pressing process produces as much as 75% of waste, which still has a useful energy and nutritional value. An overview of the potential beneficial uses of the waste and the necessary technological processes for the recovery of the waste into useful raw materials.	

Lisjak.3: Glamping in retro campervans	
Application for the automation and computerisation of the glamping service in retro campervans: video for the operation of the campervan, ordering of services in the campervan, meals, additional excursion offers, etc.	Start.ups
Olive Museum	
Design of a museum taking into account the exhibits already collected, professional museum guidelines and upgrading with interactive content, projections and innovative museum solutions to achieve uniqueness and wider visibility.	Researchers  Start.ups