

ID LOGISTICS LAUNCHES A NEW GENERATION OF ARTIFICIAL INTELLIGENCE AUTONOMOUS INVENTORY ROBOT

Orgon, May 19, 2022 – On May 18th, 2022, ID Logistics unveiled the first autonomous inventory robot operating with artificial intelligence. This robot, called ASTRID, was jointly developed by ID Logistics and the French companies E-Dentic and Wyca. A world first for the logistics market, this robot no longer needs human intervention to know its route, to steer, or to carry out inventory work.

ENSURE A PRECISE FOLLOW-UP OF STOCKS TO MAKE INVENTORIES MORE RELIABLE

Carrying out an inventory is a complex and time-consuming task for both the logistician and his client. In a context of product disruptions related to supply chain difficulties and global health crises, inventories and warehouse sizes tend to increase. Logistics providers must find solutions to ensure reliable monitoring of all stocks. This monitoring must be regular, autonomous and reliable in order to guarantee product availability and warehouse productivity.

ID Logistics has developed with the companies E-Dentic and Wyca, a new stock management tool: the ASTRID autonomous inventory robot. This technology meets two challenges:

- **Regularly make the warehouse stock** reliable by carrying out a high-speed pallet inventory in a 100% autonomous way.
- **Provide in real time all the necessary information** for the proper management of the supply chain of its customers

A COLLABORATIVE PROJECT BETWEEN 3 MAJOR INNOVATION PLAYERS

The ASTRID autonomous inventory robot was born from a collaborative project between ID Logistics, Wyca Robotics and E-Dentic. ID Logistics, thanks to its business expertise, was the initiator and coordinator of the project. Wyca Robotics is a company specializing in AMRs, a pioneer in the development of autonomous robots and a specialist in linear store inventory. E-Dentic is an IT integrator specializing in artificial intelligence and a partner of ID Logistics since 2016. E-Dentic and ID Logistics have co-developed the tracking of loads by e beacons and carried out the first deployments of video tracking solutions. In the ASTRID project, Wyca Robotics took charge of the robotic platform, and E-Dentic, the HMI (Human Machine Interface) as well as the analysis of photos by artificial intelligence.

The technology will be deployed in 3 stages:

- A France deployment among ID Logistics customers, with 11 robots installed in 2022/2023.
- A commercialisation in France, from September 2022.
- An international opening, for ID Logistics' subsidiaries, from 2023.

E-Dentic, which is the integrator of the solution, will be in charge of marketing, implementation, the hotline, as well as the coordination of maintenance operations.

"ASTRID is the latest addition to our innovation department and, after 3 years of research and development, we are particularly proud to be able to launch its operational deployment. It is a real breakthrough innovation that meets both our customers' request to make their stock management even more reliable and also improves the working conditions of our teams. Thank you to our partners Wyca Robotics and E-Dentic for accompanying us in this process. - Eric Hémar, President of ID Logistics

"We are proud of this technological partnership with ID Logistics, a major player in contract logistics recognized for its offerings involving a high level of technology and operational excellence. This collaboration places robotics at the service of companies and humans, facilitating the daily tasks of employees, optimizing and making processes more reliable. This co-innovation confirms Wyca Robotics' ambitions to provide mobile vehicles and robots capable of operating in complex environments in coactivity and autonomy, without any external help or adaptation of the environment. This new generation of autonomous vehicles is a decisive step towards the adoption of mobile service robots in all sectors open to the public or professionals. It is a demonstration of our teams' unique know-how in industrial robotics and indoor autonomous vehicles." - Patrick Dehlinger, Managing Director of Wyca Robotics.

" The realization of a technological innovation lies above all in the conviction and perseverance in an idea. And if it is shared, the result is all the more rewarding. - Gilles Tassery President of E-Dentic

ASTRID: ARTIFICIAL INTELLIGENCE AT THE SERVICE OF INVENTORIES

A true technological jewel, ASTRID (Autonomous Stock Taking Robot by ID Logistics) is an autonomous mobile robot, designed to support stock managers in their daily lives. Capable of photographing pallets and reading barcodes, it will also detect empty and full locations. He can work at night in complete autonomy as well as in coactivity, in accordance with the safety standards in force.

Inventories carried out at an unprecedented rate

ASTRID alone checks 5 000 pallets per hour, which is 20 times faster than a drone usually requiring an operator nearby and 100 times faster than a manual inventory. The frequency of inventory can thus be drastically increased without any additional effort for the stock managers. This makes it possible to carry out tax inventories/turning automatically, to make stock more reliable, to improve the quality of service, and to increase the productivity of forklift operators/preparers.

The stock manager has the option to initiate regular routines or one-off tasks. ASTRID will then launch its mission, carry out the inventory, send photos and / or reports of its mission to the web portal. Finally, the stock manager will analyze the deviations and changes in the stock.

A concentrate of the latest technologies

Developed with 3 companies specialized in technological innovation, ASTRID is equipped with the latest cutting-edge technologies. In order to ensure inventory and stock management, without any human intervention, ASTRID is equipped with:

- **SLAM navigation:** to be 100% autonomous, without human intervention or infrastructure.
- **Robotic vision:** for a reading rate close to 100% and a capacity for all types of barcodes.
- **Artificial intelligence:** for automatic analysis of all types of pallets (80x120, 100x120, or oversized).
- **A retractable mast with cameras:** for inter-cell passage, obstacle management in height and taking photos up to 11.5m in total autonomy.
- **Induction charging:** for continuous day and night operation, even in the presence of employees.
- **State-of-the-art safety equipment:** such as 3D Lidars that detect any obstacle and allow the robot to stop instantly

Finally, Astrid's return on investment is less than 18 months, due to the significant savings made on the cost of general or rotating inventories in manual mode, as well as on the added value provided by the greater availability of products for the customer.

INNOVATION: ID LOGISTICS' DNA

ID Logistics puts investment in new technologies at the heart of its strategic thinking. ID Logistics is co-developing disruptive innovative projects to improve the quality and efficiency of its operations. ASTRID is the result of 3 years of development and testing: its series production starts today.

ABOUT ID LOGISTICS

ID Logistics, led by Eric Hémar, is an international contract logistics group, with a turnover of €1,911 million in 2021. ID Logistics manages 360 sites in 17 countries representing nearly 8 million m² operated in Europe, America, Asia and Africa, with 28,000 employees. With a balanced customer portfolio between distribution, industry, healthcare and e-commerce, ID Logistics is characterized by offers involving a high level of technology. Developing, through multiple original projects, a social and environmental approach since its creation in 2001, the Group is now resolutely committed to an ambitious CSR policy. The ID Logistics share is listed on the regulated market of Euronext in Paris, compartment A (ISIN code: FR0010929125, Mnem: IDL).

ABOUT WYCA ROBOTICS

WYCA Robotics designs indoor vehicles capable of moving autonomously and safely in complex environments in which people or other vehicles circulate, such as industrial workshops, warehouses or supermarkets. WYCA Robotics' product architecture makes it very easy for integrators and customers to create autonomous mobile robots tailored to their needs, focus on the "mission" part of the robot and let the vehicle manage the movements and safety of the whole.

<https://www.wyca-robotics.fr/>

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