

PRESS RELEASE

Convey-LINK, the mobile conveyor of the EffiBOT, Plug-and-Carry® and Boa Drive associated for highly secure transfers

- **Presence control of a fixed conveyor and its alignment with the EffiBOT conveyor before the parcels transfer**
- **Loads positioning adjusted to 3mm and synchronization of the conveyors without latency**
- **Interfacing with a 6-axis picking robot**
- **Plug-and-Carry®, conveyor on lifting table controlled by the operator according to missions to be carried out**
- **Illustration of a successful project Effidence / Boa Concept**

Romagnat, France, March 30, 2021 - Effidence starts this year with the release of a package transfer solution, Convey-LINK, composed of a conveyor installed on the EffiBOT mobile robot, and a LINK communication box, integrated on the Plug-and-Carry® static conveyor.

"We have created the Convey-LINK accessory for EffiBOT by focusing on securing all stages of the transfer of packages between conveyors", comments Cedric Tessier, President of Effidence. Convey-LINK is based on a transmission technology of coded infrared signals between the mobile conveyor and the LINK box. Working with Boa Concept on a project to manage the quality control of bowls of a famous food processor, an agile and perfectly controlled solution was born. Indeed, LINK and Boa Drive communicate to align Effidence's mobile conveyor to Boa Concept's conveyors and manage the positioning of the conveyed trays with an accuracy of 3mm.

A coded infrared signal for 3 levels of security

As soon as the EffiBOT is docked in front of the Plug-and-Carry® conveyor, a first security is activated. Convey-LINK checks whether the fixed conveyor is actually present and only deactivates the robot's lateral light curtain that is directed towards it. This is achieved with precise alignment and transmission of a coded signal between the infrared sensors of the robot conveyor and those of the LINK box. *"With this first level of security, we guarantee that the EffiBOT's conveyor rollers can only engage in front of a fixed conveyor table",* explains Cédric Tessier. A second security level is implemented to check the compatibility of the conveyors with each other - in terms of dimensions, roller speed and available space - through Boa Drive, which instantly informs LINK. The final level of security is the real-time synchronization of the activation of each conveyor's rollers. Using once again this infrared technology and Boa Drive's ability to communicate easily with other control systems, a direct and instantaneous communication is ensured between these conveyors to provide a smooth and fast transfer of parcels.

Convey-LINK goes hand in hand with Plug-and-Carry®

In 2019 already, Effidence and Boa Concept had worked together to dynamically interconnect several Plug-and-Carry® intelligent modular conveyors via the use of EffiBOT mobile robots equipped with gravity conveyors (Project La Boule OBUT). Today, they collaborate once more, with this new Convey-LINK accessory for the voluminous transfer of kitchen robot bowls. Cédric Tessier looks back on the project: *"Convey-LINK kept its promises because its installation and interfacing with Plug-and-Carry® was done in record time. It was fundamental for us to offer the fastest deployment possible for our customers. This philosophy is fully shared by Boa Concept."*

"With Plug-and-Carry®, we offer a static intelligent modular conveyor solution that Effidence extends with EffiBOT and its mobile modular conveyor solution. Convey-LINK appeared as an efficient, economical and unique answer to dynamically interconnect all our remote conveyors. Like all installations of the two companies, this new project demonstrates our ability to deploy custom solutions with standard equipment" explains Patrice Henrion, Managing director of Boa Concept.

About Boa Concept

Boa Concept, founded in 2012, is an innovative company specialized in intralogistics. Very quickly, relying on a modular and easy-to-implement design, the company democratizes access to automation: today, Boa Concept offers a range of Plug-and-Carry® smart modular conveyors in light and heavy loads as well as an automated storage system called Plug-and-Store®; all its products are assembled in France. Boa Concept's installations operate without a PLC thanks to their on-board control system and have convinced big names in logistics and e-commerce thanks to the performance and scalability of its installations. Supported by a team of 50 people, one third of whom work in the design and R&D departments, the company's values are Flexibility, Reactivity and Innovation. The company has thus gained the trust of its customers in France, Western Europe and Morocco and achieved a turnover of 10 million euros in 2019.

About Effidence

Effidence provides innovative robotic solutions to optimize intralogistics flows and order picking applications of the industry or logistics. Founded in 2009 by Cedric TESSIER, Effidence offers agile and efficient robotic solutions that adapt to the needs of its customers and their growth: collaborative and autonomous robots to work with or near humans with the "follow-me" mode, standalone robots or cooperating fleet like "swarm-me".

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