



Convey-LINK, a conveying accessory for **EffiBOT**, automatically transfers your parcels, bins or pallets between your fixed and mobile conveyors.

A triple security is ensured by the bi-directional infrared communication between the mobile EffiBOT conveyor and the fixed conveyor. It guarantees the precise docking of the robot, their compatibility (dimensions, speed of the rollers) and the synchronization of the rollers between conveyors.

Use **EffiBOT** with **Convey-LINK** to interconnect all your fixed conveyors.







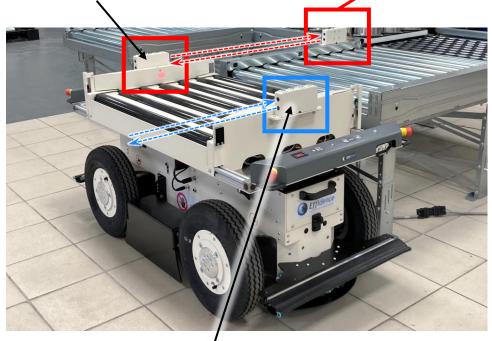




The Convey-LINK accessory

1st Transmitter-receiver for the transfer on the right of EffiBOT

- Convey-LINK is an accessory that can be attached to the standard EffiBOT robot tray. It consists of a set of motorized rollers and two infrared transmitters and receivers.
- The LINK box, installed on the fixed conveyor, is also equipped with infrared transmitters and receivers, compatible with those of Convey-LINK.
- EffiBOT, in stand-alone mode, docks in front of a fixed conveyor. Convey-LINK communicates with the fixed conveyor via LINK using infrared coded signals to check compatibility and available space before transfer.



Receiver

Transmitter

2nd Transmitter-receiver for the transfer on the left of EffiBOT

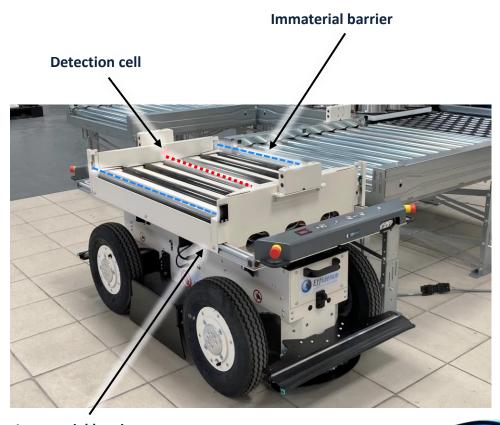


LINK box



The Convey-LINK accessory

- A central sensor (**detection cell**) detects the presence or absence of a load on **Convey-LINK**.
- On both sides of the Convey-LINK there is an immaterial barrier.
- During a package transfer, the light curtain on the fixed conveyor side controls the complete transfer of the package. EffiBOT is not allowed to move as long as a package is present between the two conveyors.
- The other barrier prevents any risk of falling. It also ensures centering during loading.
- To transfer a load, **Convey-LINK** & **LINK** trigger their conveyor rollers simultaneously.



Immaterial barrier



The Convey-LINK accessory

Convey-LINK is available in **different versions**: simply define the useful length of the package to be transported.

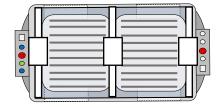
Convey-LINK is modular. Create your own configuration by installing 1, 2 or 3 independent mobile conveyors on EffiBOT.

Examples of some versions:

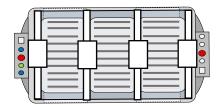


Compatibility:

• 400 / 500/ 600 / 800 version



400 / 500 / 600
 version



• 400 / 500 version



• The **Convey-LINK** technology answers simultaneously the 5 following challenges :

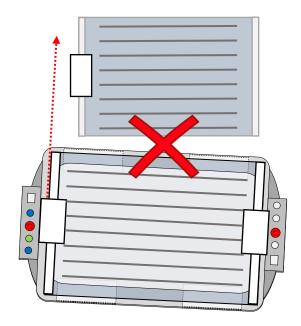
	Convey-LINK
Securing the docking phase (alignment)	
Checking the compatibility of the conveyors	
Smooth and instantaneous transfer by synchronizing the rollers	
Lateral transfer on both sides of the robot	
Flexibility of the solution, up to 3 independent conveyors	



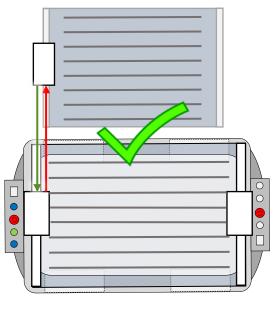
Securing the docking phase (alignment)



 Only when the EffiBOT is precisely aligned (linearly and angularly) with the fixed conveyor, will the infrared beams of Convey-LINK and LINK be aligned face to face. If the beams are not aligned, communication is impossible, which prevents the transfer of packages.







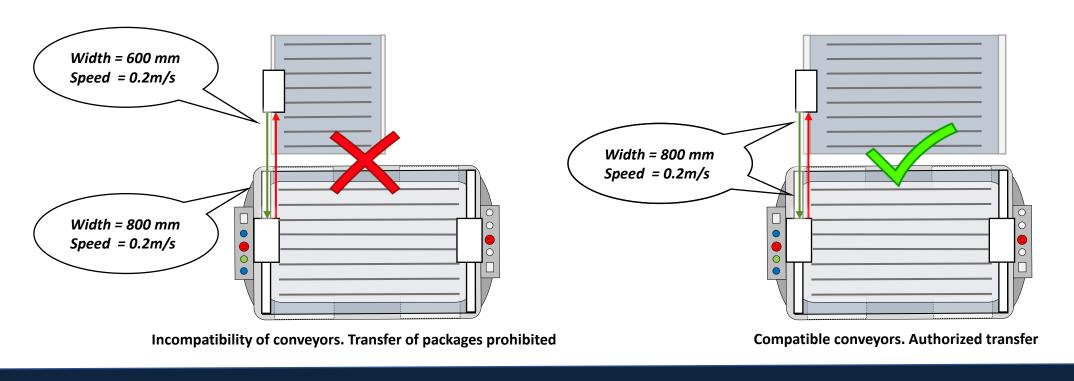
Accurate docking + Operational two-way communication.





Checking the compatibility of the conveyors

• After the robot docks, the conveyors communicate with each other by **infrared signals** to check themselves in terms of **dimensions**, **roller speed**, **available space** ...

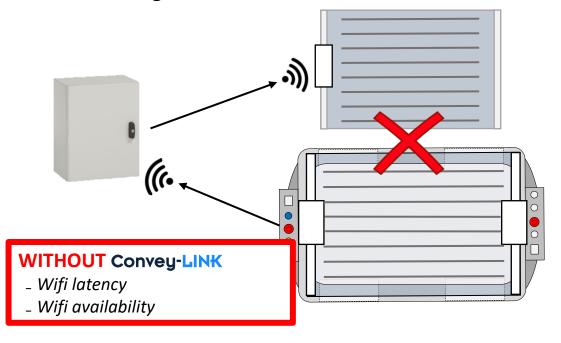


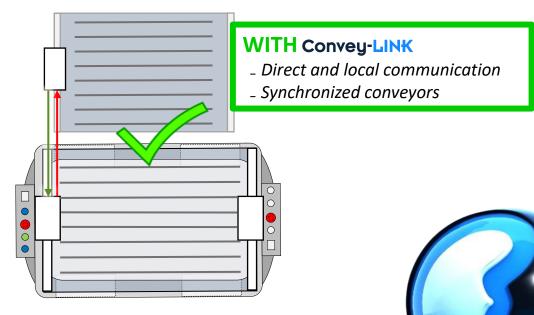


Smooth and instantaneous transfer by synchronizing the rollers



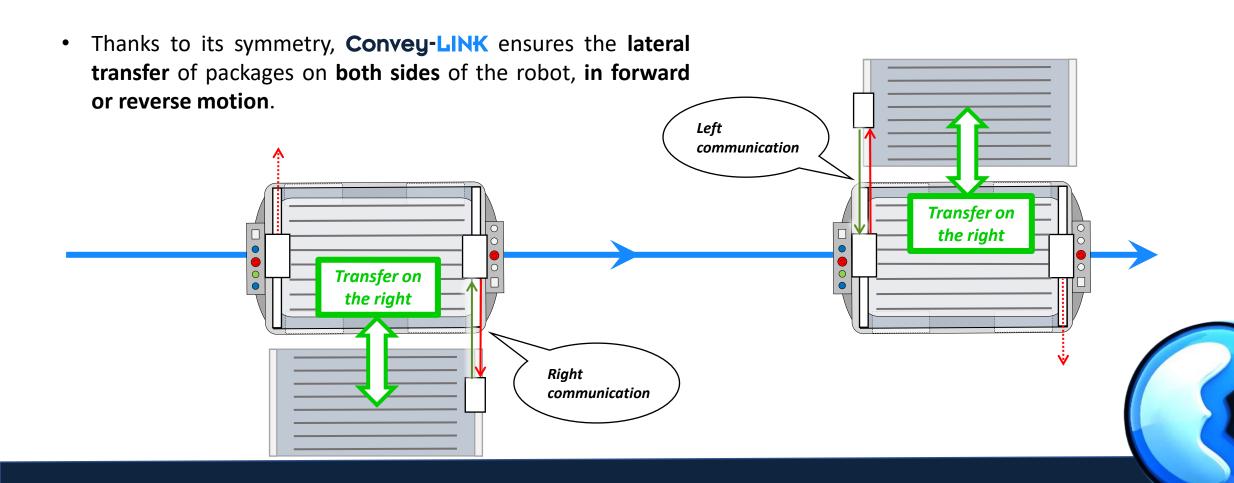
• The direct and instantaneous communication between the fixed conveyor and Convey-LINK offers a perfect synchronization of the conveyors ensuring a fluid and fast transfer of the packages without risk of falls or blockages.







Lateral transfer on both sides of the robot

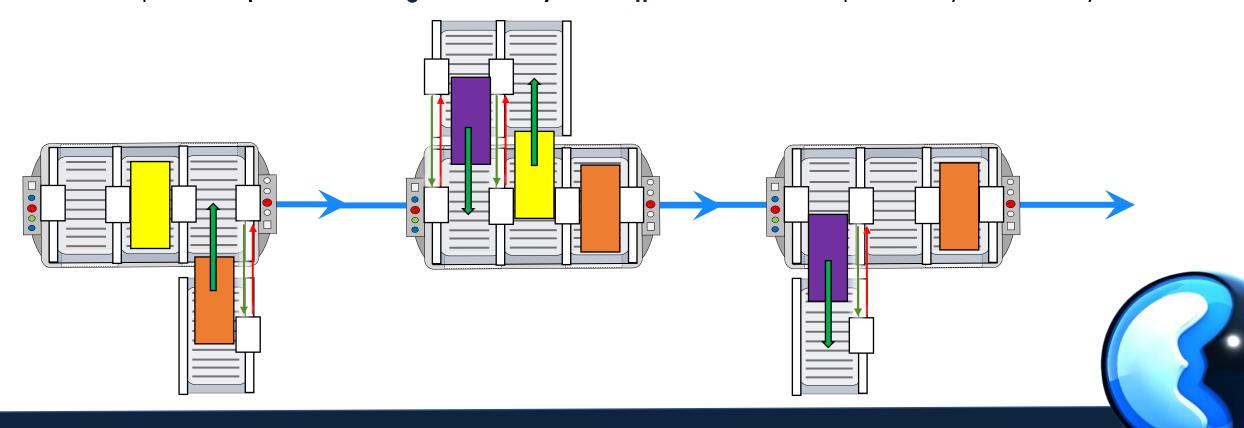




Flexibility of the solution, up to 3 independent conveyors



• Install up to 3 independent Convey-LINK conveyors on EffiBOT for maximum productivity and flexibility.



Usage

- Convey-LINK can be used with or without a fleet server.
- Without a server: "standalone mode", EffiBOT moves in total autonomy according to the indications given in its cartography:
 - list of routes,
 - The position of the fixed conveyors and the side on which to dock,
 - Navigation destination defined by zones and activated either by pressing the "Auto" button on the console or triggered by a timer.
 - Ex: When the robot picks up a parcel, it always unloads it at the same destination in an autonomous way.
- With a server "FCS mode", EffiBOT moves in total autonomy according to the instructions communicated in Wifi by the server. Eventually, these instructions can come from the cartography.

|--|

	Synthesis	Other Products	Convey-LINK
	Loading surface	300 x 300 mm 406 x 356 mm 600 x 400 mm	400 x 600 mm 600 x 600 mm 600 x 1200 mm
	Payload - speed	80 kg - 1,35 m/s 50 kg - 1,5 m/s	Jusqu'à 250 kg – 1,7 m/s
Productivité Sécurité	Securing the docking phase (alignment)	×	
	Checking the compatibility of conveyors and available space	X	Z X X X X X X X X X X X X X X X X X X X
	Instant and local synchronization of conveyors	X	
	Lateral transfer on both sides of the robot	X	
	Modularity	YES: 1 conveyor	YES: up to 3 independant conveyors



www.effidence.com

23 Rue de la Roseraie, 63540 Romagnat

+33 (0)4 73 25 15 26

sales@effidence.com







