

BAGGAGE TO PAX - B2P

One of Gesnaer's goals has always been to keep developing technology through our R&D department in our Madrid offices. One specific project that we have been working on since early 2020 is our Baggage to Pack, the first automated baggage delivery system that delivers each piece of baggage to each individual customer avoiding room for robbery or mistakes when collecting baggage after getting off a flight.

Every passenger will be able to collect their bags in a very easy and intuitive way that will make for a more speedy baggage collection at the airport.

The process begins when the passenger gets to the baggage delivery area where a standing touch screen will act as the interface between the passenger and the system that will deliver their bags. Some of the specs for this standing touch screen are the following:

- Max. weight of 10 kilograms
- Max. height of 1150 millimeters
- The structure will have fans to avoid the screen from overheating
- Memory card
- WiFi connection



The passenger will be able to select the language they would like the screen to be in, to then proceed to insert the bar code number assigned to their bag.

Each bag has a unique bar code that gets scanned during its journey through the airport's conveyor belts until it reaches the pick up area, this is how the system recognizes a certain bag and can bring it to each individual passenger.

Once the number has been inserted in the screen, the system will automatically bring the bag to a pick up box.

Having gone through all this process, the passenger will be able to see on the screen which box has been assigned to the bag and will be able to collect it.

To be able to see and experience the whole process that would be shown on the B2P system touchscreen, you may scan the QR code presented which will redirect you to a website.

On this website you will be able to go through each step that a passenger would have to go through when collecting baggage.



Every component that is part of the B2P has the ability to alert the system when it needs maintenance or repairing. Should a system breakdown or malfunction occur, an alarm will turn on, alerting that the system is not working properly and it must be checked. The company in charge of the system's management will be able to see the alert as some of the following:

- STOP
- BREAKDOWN
- BLOCKAGE
- VOLTAGE DROP

These alarms can come on and appear regarding any of the components from the system, such as conveyor belts, roller belts, sensors, servers, touchscreens, information screens, bar code number reader, electrical boards.

The image presented shows how the information regarding the state of each component would be shown with different colour patterns that each represents a different state.

- Green = System OK
- Blue = Preventive maintenance required
- Red: Breakdown



Our B2P system also allows companies and passengers to track each piece of baggage thanks to the monitoring of each bag through the whole delivery process.

All that a passenger would need to do to be able to know where a specific bag is, is to contact the airline they traveled with. A baggage operator would then input the bag's bar code number and the system would automatically show where the bag currently is.

Due to the situation we are currently experiencing with the world Covid-19 pandemic, we thought it was necessary to add a disinfection station to kill any germs that might be on the pieces of luggage and avoid any unwanted viral spread.

To do so, Gesnaer considered several methods such as drizzling alcohol over the bags or using ozone to disinfect all surfaces. The method we ended up selecting is using UV rays directly on all the bags that go through the B2P system. UV rays are a non invasive way of delivering the higher standards in terms of disinfection as it acts directly on the germs' DNA which automatically ends their ability of transmitting any disease that they carry with them. This is also a very cost effective solution to prevent any unwanted spreads and it makes it easy for our clients in terms of maintenance as it is very easy to find UV lights all over the world.

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