



LAB STATIONS

Hörtig Rohrpost GmbH

Why Lab Stations?

Our stations specifically adapted to the needs of laboratories

Every lab surrounding is different. It is crucial to use the **most suitable station for the specific lab situation** as this will enhance workflows for lab staff significantly. Appropriate station selection can also increase the efficiency of maintenance and repair work at the station.

Our wide range of variations ensures that the chosen station fits the lab situation most perfectly. We offer send-only and receive-only stations as well as stations that are capable of Multicarry and/or Multi-Send and stations that are not. Additionally you can decide between numerous outlet versions, like one or more belts, bends and ramps.

Send-Stations vs. Receive-Stations

Concentrating on one function when choosing a station can improve throughput significantly. **Send-Stations** are only able to send carriers and can't receive. **Receive-Stations** can only receive, and not send. Installing both instead of a combined station means doubling up transaction rates and making the system less prone to failure.

- + Enhance workflows
- + Reduce Turnaround Time
- + Use space efficiently

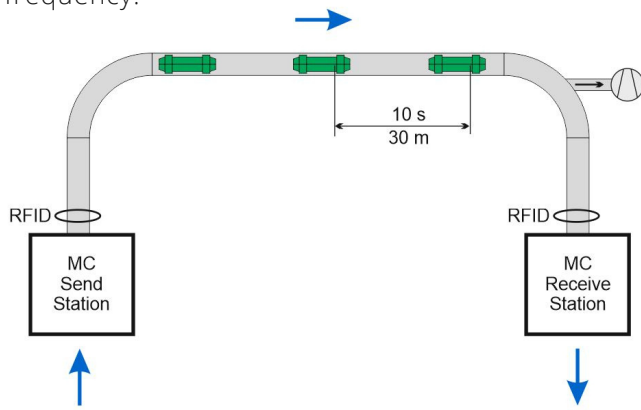
All our Send-Stations are equipped with **RFID readers** by default, so carriers depart automatically and can be monitored.

The Receive-Stations can optionally be extended with RFID readers to monitor the arriving carriers.

Multicarry vs. Non-Multicarry

A **Multicarry zone** can transport more than one carrier at a time. This results in a higher transport volume and a faster in- and outtake of carriers. There is no

significant waiting time when sending or receiving carriers in a high frequency.



Multicarry Send- and Receive-Station: Three carriers go through the tube line simultaneously

Multicarry Send-Stations can add further carriers into a currently running transport process of other carriers sent before. Typically, they send one carrier every ten seconds.

Multicarry Receive-Stations are at the end of a Multicarry zone and can buffer several carriers before releasing them to an outlet unit or to a transfer unit for further transportation.

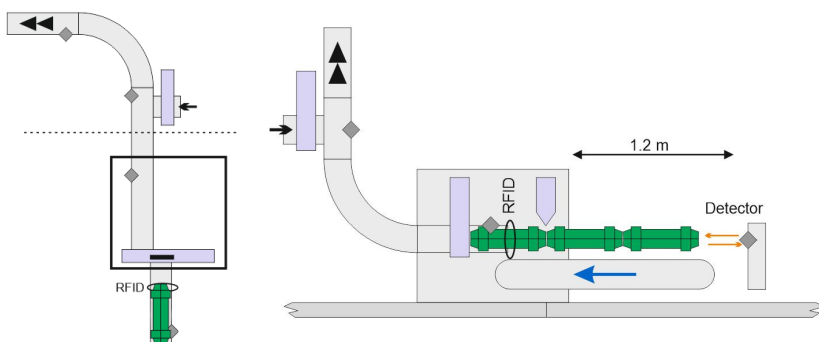
Non-Multicarry Stations are not able to feed more than one carrier into one single tube line at once.

Multi-Send vs. Single-Send

Be aware: Multicarry is not the same as Multi-Send.

Multi-Sending does not necessarily mean that a station can send several carriers within one tube line at once – it does only mean, that the station can hold several carriers at the sending slot waiting for departure. Staff can insert several carriers into the station in one take. They do not have to wait until the first carrier departed.

There are stations, that combine Multicarry and Multi-Send, but there are also stations that have only one of the features.

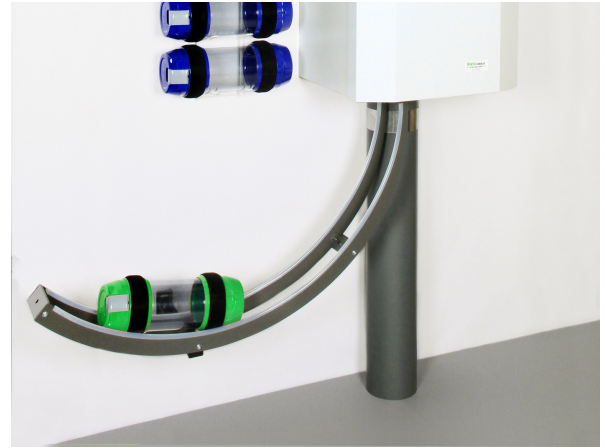


Left: Single-Send-Station – Right: Multi-Send-Station

Bend, Ramp or Belt?

Space-saving: Reception Bend

Installing a reception bend is the most space-saving option. It can hold up to two carriers at the same time and leads to a gentle arrival of the carriers.



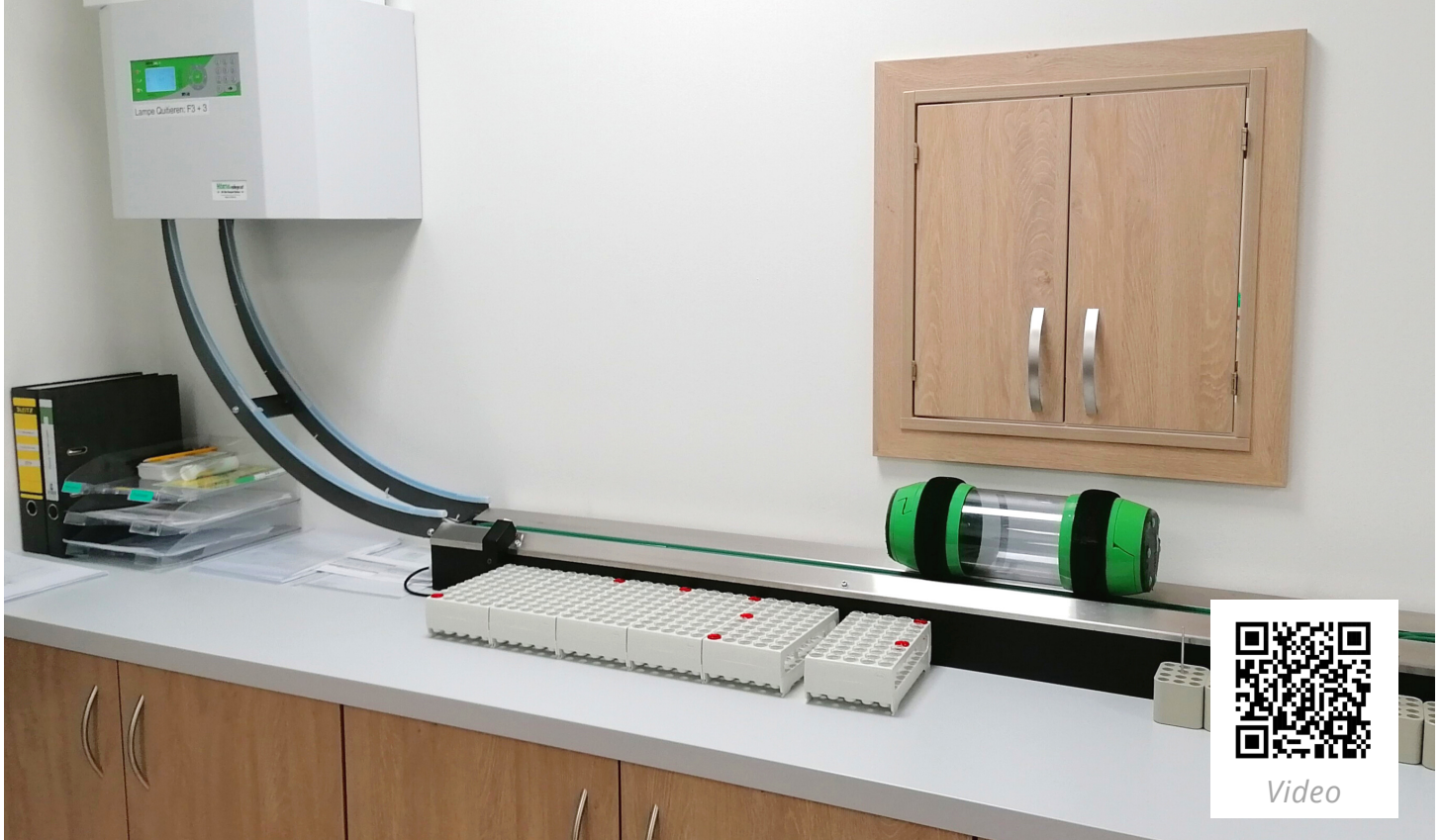
Low-budget: Reception Ramp

The reception ramp can hold up to four carriers. It has a one meter straight part that can optionally be extended by another meter. In contrast to the conveyor belt, the carriers could strike each other during arrival.



Smooth and efficient: Reception Conveyor Belt

Installing a conveyor belt to the station is the premium option out of all outlet methods. The belt can store the **highest amount of carriers**. Depending on how many belts you chose to install in a row, it can store 5 - 15 carriers at the same time.



One conveyor belt (installed at station 1.0222.T.02 with Hörtig-housing)

The more belts you install, the more people can get or submit carriers simultaneously.

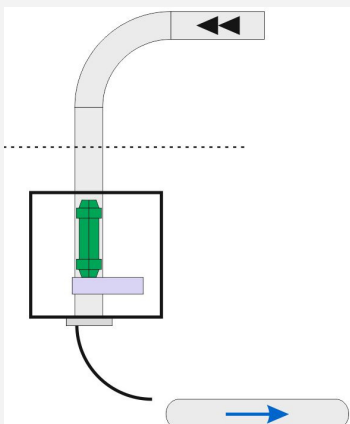
The belt is the **smoothest outlet option**. With a clever method, it ensures, that incoming carriers won't strike each other. The stations only release carriers if the conveyor belt is not already fully occupied by carriers. When a carrier is taken from the conveyor belt, the belt automatically starts to move the remaining carriers to the end of the belt to create space for newly arriving carriers.

This leads to a safe management of the transported goods and **prevents hemolysis**.

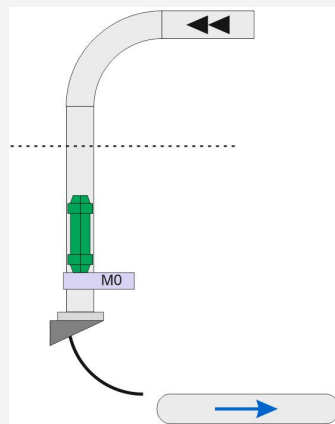
With or without housing?

For all Lab-Stations three different housing options are available

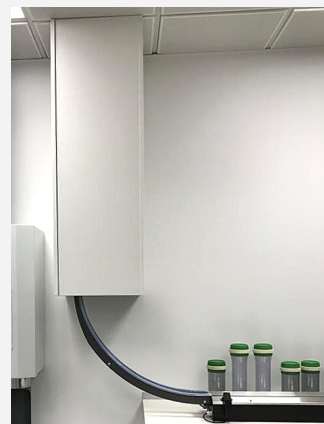
- **No housing**: Space-saving, cost-effective and easy to access for maintenance and repairs
- **Hörtig-housing**: Tidier look and easier to clean
- **Customized housing by carpenter**: Perfect fit into the environment visually and in terms of space (we deliver the drawings for your carpenter)



Station with Hörtig-housing



Station without housing



Station with carpenter-housing



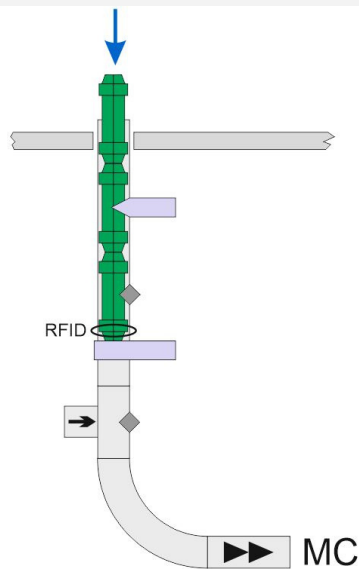
Inside: bare station

Lab Send-Stations

We offer the Lab Send-Stations 1.0671, 1.0672, 1.0675 and 1.0676

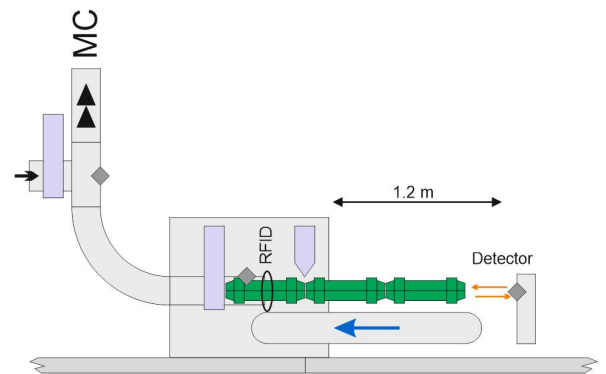
Station 1.0671.T.0F

Lab Send-Station, that sends the carriers vertical downwards. The station is capable of Multicarry and Multi-Send. It includes an RFID reader for automatical carrier departing.



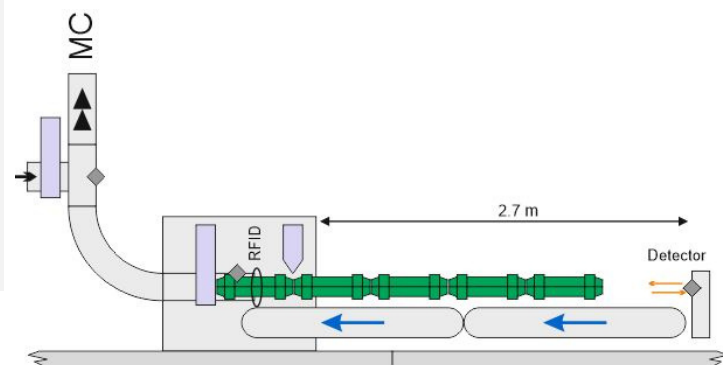
Station 1.0675.T.1F

Lab Send-Station with one belt. The carriers are sent horizontally by putting them onto the conveyor belt. Thanks to the integrated RFID reader, they depart automatically. The station is capable of Multicarry and Multi-Send.



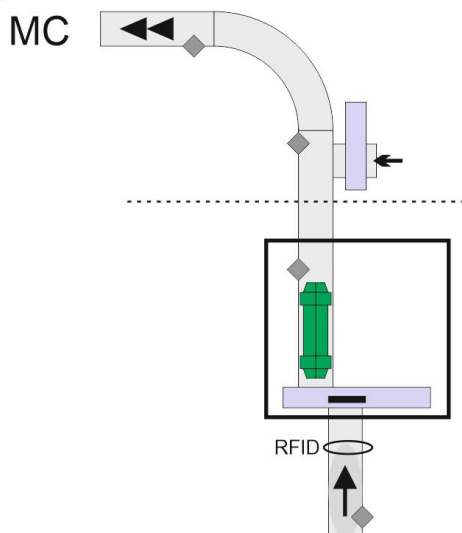
Station 1.0676.T.1F

Like station 1.0675.T.1F, but with more than one belt installed in a row. Therefore it can temporarily store more carriers and more people can work on it at the same time.



Station 1.0672.T.DF

Lab Send-Station, that sends the carriers vertical upwards. The station is capable of Multicarry and comes with a housing. The integrated RFID reader makes it possible for carriers to depart automatically.

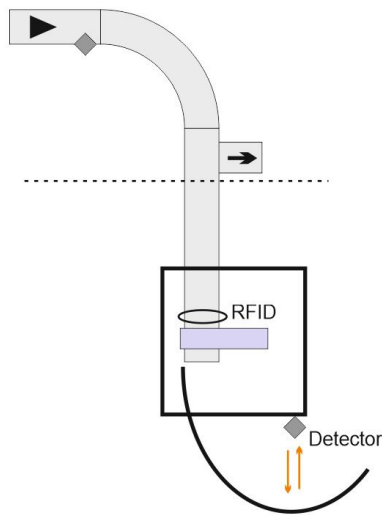


Lab Receive-Stations

We offer the Lab Receive-Stations 1.0222, 1.0652, 1.0653, 1.0655, 1.0656 and 1.0657

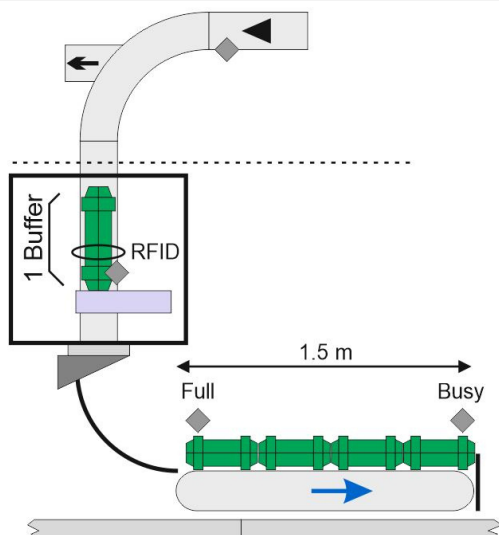
Station 1.0222.T.02

Lab Receive-Station with a reception bend. The station is not capable of Multicarry and comes with a housing. It can optionally be equipped with an RFID reader to monitor arriving carriers.



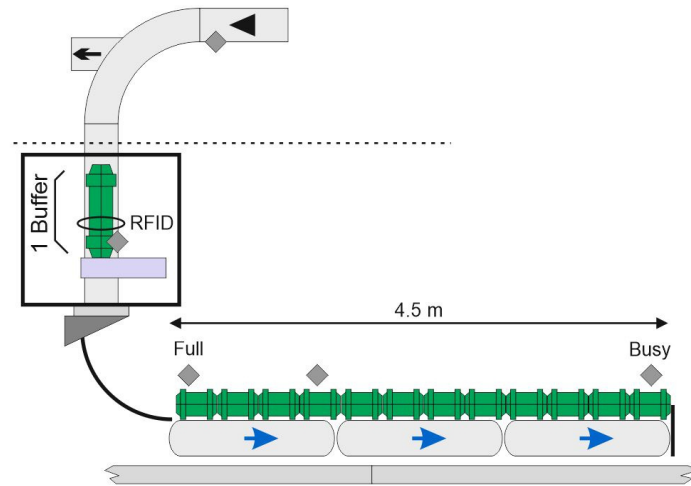
Station 1.0652.T.1F

Lab Receive-Station with one conveyor belt. The station is not capable of Multicarry and comes with a housing. It can optionally be equipped with an RFID reader to monitor arriving carriers.



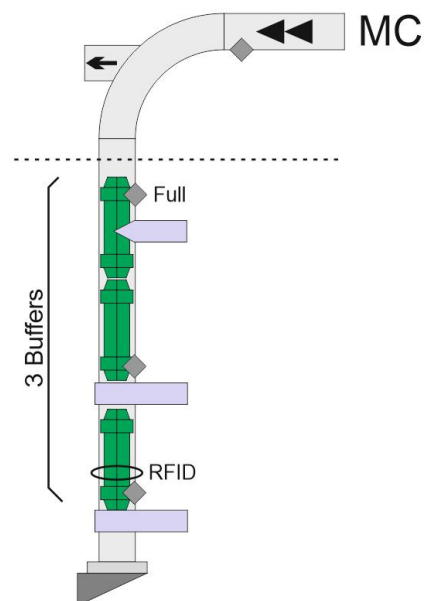
Station 1.0653.T.1F

Like station 1.0652, but with more than one belt installed in a row, so the conveyor belt is longer. Therefore it can temporarily store more carriers and more people can work on it at the same time.



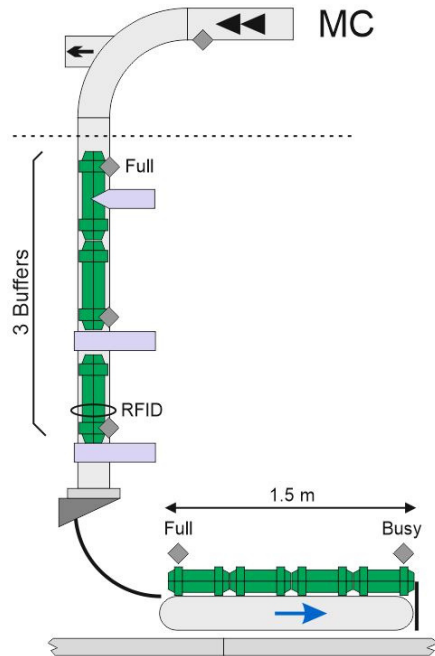
Station 1.0655.T.0F

Lab Receive-Station with a reception bend. The station is capable of Multicarry and can optionally be equipped with an RFID reader to monitor arriving carriers.



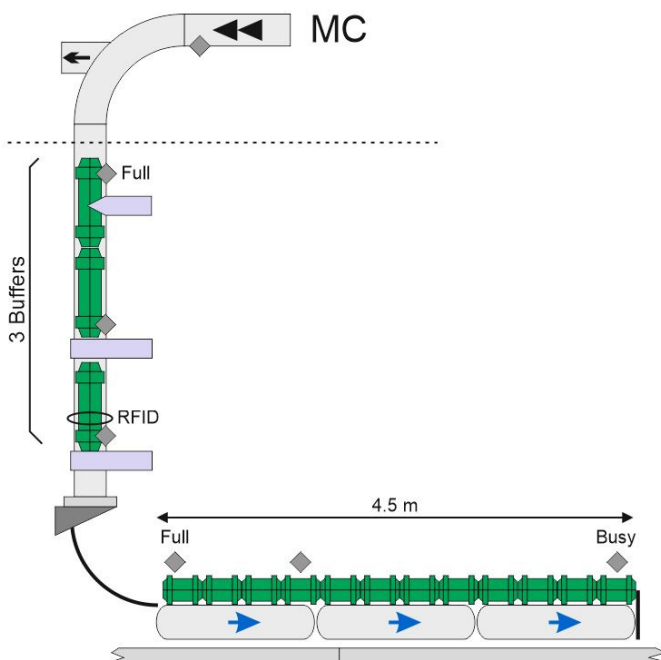
Station 1.0656.T.0F

Lab Receive-Station with one conveyor belt. The station is capable of Multicarry and can optionally be equipped with an RFID reader to monitor arriving carriers.



Station 1.0657.T.0F

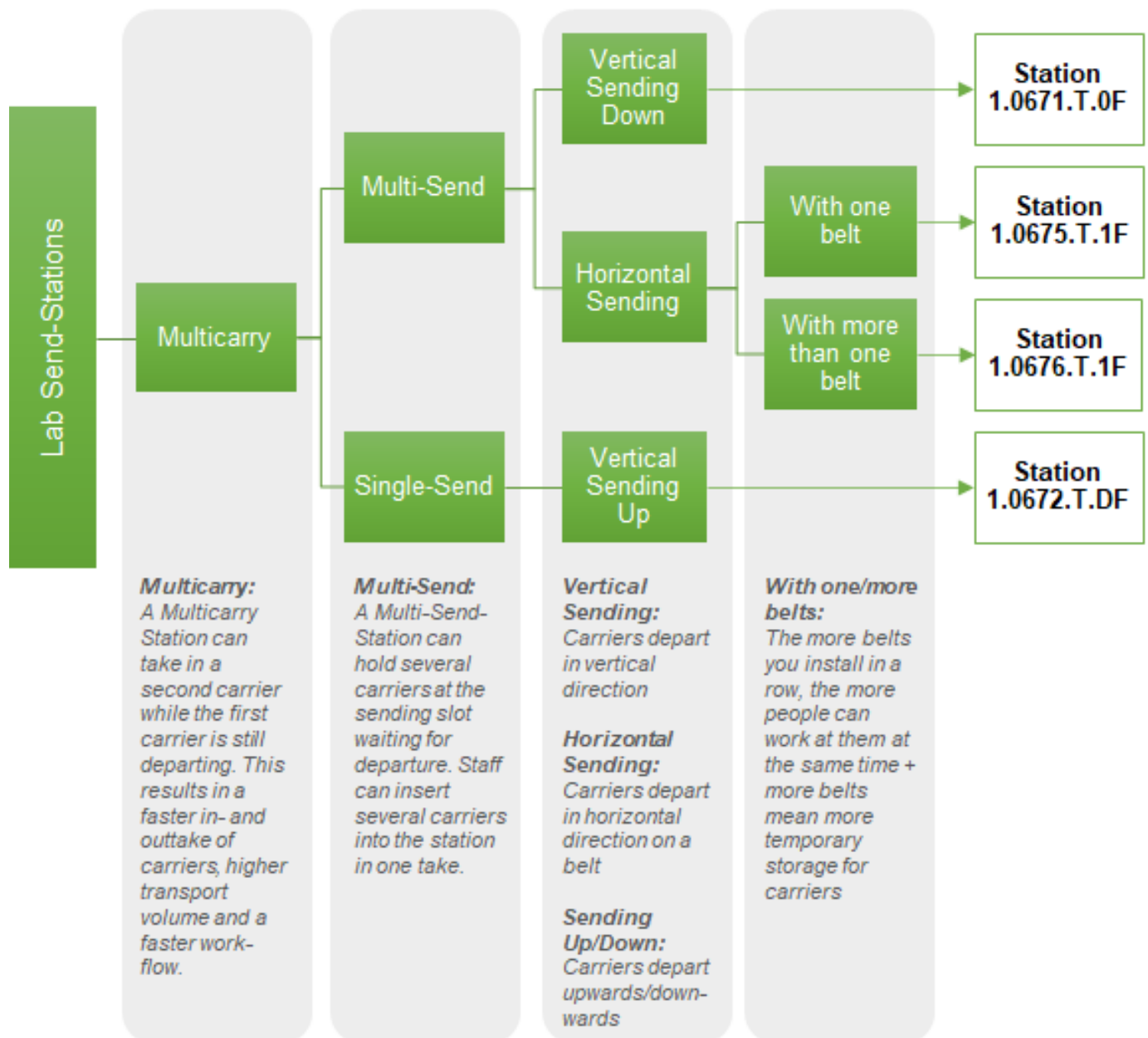
Like station 1.0656, but with more than one belt installed in a row, so the conveyor belt is longer. Therefore it can temporarily store more carriers and more people can work on it at the same time.



Overview Lab Send-Stations

Which Send-Station works best for you?

This overview helps you to decide which station fits best for your specific case. Starting on the left side with deciding for or against Multicarry, the decision tree will guide you to the most fitting Send-Station.



Overview Lab Receive-Stations

Which one is your go-to Receive-Station?

This overview helps you to decide which station fits best for your specific case. Starting on the left side with deciding for or against Multicarry, the decision tree will guide you to the most fitting Receive-Station.

