



PRODUCTS

SYSTEM H61

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HÖRTIG rohrpost[®]
► Air Tube Transport Systems ►

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01 WELCOME

Welcome at Hörtig Rohrpost

HÖRTIG Rohrpost is a producer of pneumatic tube systems, based in Bayreuth, Germany. For more than 50 years we have been realizing pneumatic tube system solutions to in-house logistics, tailored to suit the needs of our customers worldwide.

Dedicated expertise for 55 years

We are a trusted partner for development, production, installation and maintenance. Our systems are used in hospitals, industrial laboratories, retail, pharmacies, cinemas, gas stations and many production sectors such as the automotive industry. Pneumatic tube systems support processes wherever fast and secure transport is required, or great distances must be bridged efficiently.

Valuable partners all over the world

The focus of our business activity is on maintaining and improving the high quality of our products as well as on outstanding customer service – as evidenced in our ISO 9001 certification in 2014. Reliability and fairness towards our customers, suppliers and employees is near to our heart. We encourage the highest expectations from our customers and take them as positive challenges and inspiration for further innovation and improvement of our products and services.

Innovative Pneumatic Tube Solutions

We are both a technical manufacturer of high-tech pneumatic tube systems and a service-based company: We realize individual solutions through close collaboration between the customer's teams, the architects and our highly qualified and motivated expert engineers and technicians. Thus, we can fit customer need perfectly. As a service add-on we offer maintenance contracts to check the machines professionally and in predefined intervals. Our around-the-clock hotline supports remote maintenance and eliminates eventual faults in the system immediately and in a fast, cost-efficient way.

Your contact partners



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02 APPLICATIONS



HOSPITAL LABORATORY PHARMACY

Hospital pneumatic tube systems are reliable, powerful and efficient transport options for physical objects of any kind. The use of pneumatic tubes in hospitals saves valuable time and human resources. Our pneumatic tube solutions are **specially designed for use in healthcare facilities**. To protect sensitive loads, we offer

gentle receiving equipment and a special transport container for use in laboratories. When transporting blood products, we take the weight, transport time, hemolysis, and centrifugal and acceleration forces into account in the design. Particularly time-critical goods – for example, tissue samples from an operation – can be shipped with priority.

- Blood specimens/cultures
- Swabs
- Urine/stool samples
- Prescription, drugs, injections, medicines
- Documents, test reports, X-rays
- Patient items



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PRODUCTION INDUSTRIAL LABS

Industrial laboratories have special transport requirements. The material samples taken are to be transported from production to quality assurance not only quickly, but also gently. To meet these requirements, we have developed not only special laboratory containers, but also laboratory stations for industry. They are designed for use in

production plants and their quality assurance. Using pneumatic tubes in industrial laboratories leads to an optimization of internal processes: By speeding up their transport, **samples can be analyzed and evaluated exceptionally quickly**. Whether food samples or steel samples, they can all be quickly brought to the industrial laboratory for quality control.

- Production samples (food, steel, chemical samples,...)
- Bulk, solid, liquid or gas
- Hot and cold material
- Tools, spare parts, measuring instruments, workpieces
- Documents



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SUPERMARKET WAREHOUSE CASH

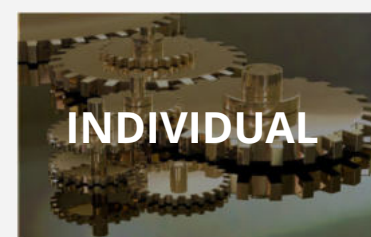
In cash intensive organizations security, efficiency gains and time savings play a major role in logistics. Security is a central aspect to be considered when planning optimal logistics solutions. The transport with **pneumatic tube systems protects cash reserves and employees** by providing an efficient supply with change without the **risk of losses in**

transportation. Cash management by pneumatic tubes is beneficial for example in supermarkets, warehouses, jewelers, casinos, cinemas, roadhouses, tollgates, petrol stations, and banks. The pneumatic systems can blend in smoothly with the interior of stores and cash-booths that aim to operate **efficiently**.

- Production samples (food, steel, chemical samples,...)
- Bulk good
- Hot and cold material
- Solid, liquid or gas



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INDIVIDUAL

In addition to the most frequently applications which are covered by our standard systems, we also design and produce tailor-made pneumatic tube systems in accordance with customer needs. In general, the systems can be used for **every internal carriage of goods**. It is possible to satisfy different individual requirements regarding the specific good and loads as well as the type of send and receive stations needed.

03 Overview – Various Systems

H61 - Universal System – High-End Solution

Tube Do110, Do132, Do160, Do200

- Up to 255 Zones and 32.000 stations
- Various input concepts possible at stations, such as simple keyboards up to 10-inch touch screen display
- Integration into various communication and logistics systems possible
- Very adaptable to the most diverse needs of the customer
- More about specifications, system details and benefits can be found on the following pages
- offer various smart software features, such as statistics, transport monitoring and predictive maintenance



H21 - Point-to-Point System

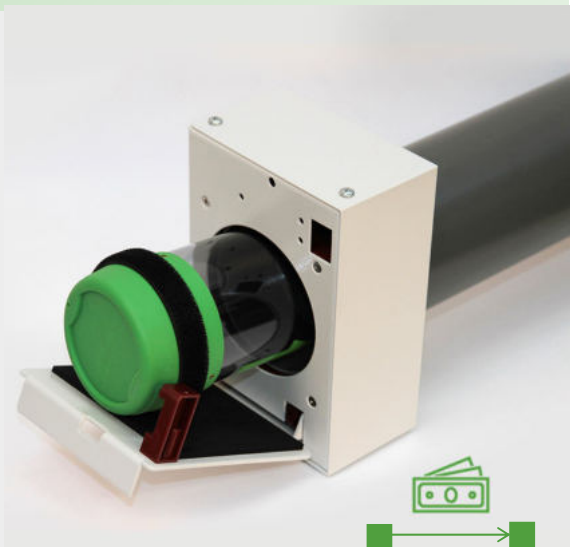
Tube Do110, Do132, Do160, Do200

- Send and receive between two stations
- Stations: Slide-stations, open receiver unit with basket
- Example of goods: Delivery notes, Invoices, Cash-vouchers, laboratory specimens, handcraft, denture casts in medical labs, drawings of a size up to DINA0, films in photo laboratories, tools at manufacturers, marking plates in the car industry

H36 - Transport of money

Tube Do63, Do90, Do110

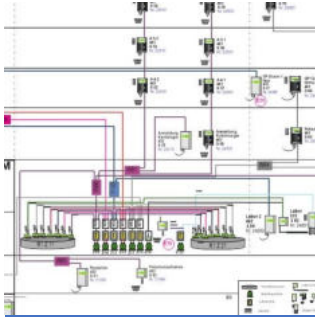
- Sending cash in supermarkets, cinemas, department stores, filling-stations, shopping-malls, motorway toll-houses and financial institutions
- Cash from one or more cash desks to the safe or the back-office
- Secure transport of cash and saving of personnel resources at the same time
- 50 stations can be interconnected
- Stations at the cash registers in different versions: Desk inbuilt, wall mounted, mounted on the floor
- Receiving stations: Receiving device, receiving station within a safe, lockable receiving station



You would like to receive more information about our systems H21 or H36? Then you can contact us about info@rohrpost.de or Tel.: 49 921 78949-0



04 SYSTEM H61: Features



Full features for complex plants

The system H61 uses **ultra-modern technology** to accommodate different requirements of in-house logistics. Various hospitals and companies use our H61 because it fits their needs perfectly. It is suitable wherever more **complex logistics problems** must be solved.



Computer controlled & RFID

In contrast to our smaller 2-Point System H21, the system is computer controlled. This enables various additional features. We offer a range of smart additions in conjunction with our RFID-carriers – for instance, the **automated management** of empty carriers and the **tracking and tracing of all transports**.



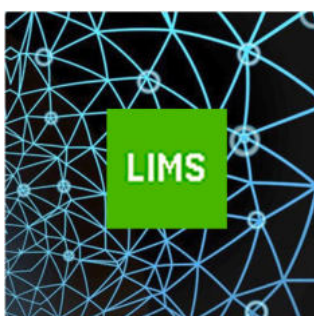
Innovative Transfer Method & Priority Sending

The H61 can be used for up to 255 zones and 32.000 stations with diverters and transfer methods. Our transfer method using a space-saving 16-fold turret enables **significant shorter transport times** than conventional transfer systems. Also it makes **priority sending** of especially important goods possible.



Easy Sending – Best Usability

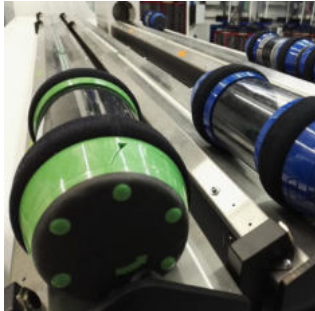
A variety of different stations can be mixed to match your needs. We are always open to develop specialized solutions for your custom needs. In the latest version, the stations are equipped with a **10" touch screen as control and display panel**. The fully configurable display panel enhances usability, prevents errors and comes with extra benefits like a MiFare reader.



Smart Integrated Pneumatic Tube Solutions

The H61 can be **integrated into customers' information management systems** (e.g. LIMS) via data interface. For example, information about transports and about the transported goods can be transferred.

04 SYSTEM H61: Features



Speed-up Carrier Sending Process

To speed up the transport process, we have **Multicarry Stations** that can dispatch carriers at 10-second intervals. Our **Multi-Send Stations** enable the parallel input of several containers at once into one station. Using **Colour-Coding** of carriers let's carriers dispatch automatically – without having to type in the destination.



Low Energy Consumption & Noise Level

As the **blower** is the most energy-intensive component in pneumatic tube systems, we provide more energy-efficient models as an option. Also, they are designed to emit very little noise.



Secure Sending & Reception

Access to important or dangerous items should be restricted. This is where our Secure Receive Stations come in, releasing certain items **only to authorized employees** who have identified themselves in advance at the station. Even sending from certain stations or to certain destinations can be made possible only for selected employees or groups of employees.



Gentle Reception & Auto-Return Empty Carriers

To ensure that incoming containers arrive gently at the station, we offer a **range of gentle receiving options** such as reception bows or conveyors. Empty carriers can be returned automatically.

RT-Win 4									
Line	Station	Time	Carrier	Time	Carrier	Time	Carrier	Time	Carrier
1	1	10:00:00	OK	2	10:00:10	OK	3	10:00:20	OK
2	2	10:00:20	OK	3	10:00:30	OK	4	10:00:40	OK
3	3	10:00:40	OK	4	10:00:50	OK	5	10:01:00	OK
4	4	10:01:00	OK	5	10:01:10	OK	6	10:01:20	OK
5	5	10:01:20	OK	6	10:01:30	OK	7	10:01:40	OK
6	6	10:01:40	OK	7	10:01:50	OK	8	10:02:00	OK
7	7	10:02:00	OK	8	10:02:10	OK	9	10:02:20	OK
8	8	10:02:20	OK	9	10:02:30	OK	10	10:02:40	OK
9	9	10:02:40	OK	10	10:02:50	OK	11	10:03:00	OK
10	10	10:03:00	OK	11	10:03:10	OK	12	10:03:20	OK
11	11	10:03:20	OK	12	10:03:30	OK	13	10:03:40	OK
12	12	10:03:40	OK	13	10:03:50	OK	14	10:04:00	OK
13	13	10:04:00	OK	14	10:04:10	OK	15	10:04:20	OK
14	14	10:04:20	OK	15	10:04:30	OK	16	10:04:40	OK
15	15	10:04:40	OK	16	10:04:50	OK	17	10:05:00	OK
16	16	10:05:00	OK	17	10:05:10	OK	18	10:05:20	OK
17	17	10:05:20	OK	18	10:05:30	OK	19	10:05:40	OK
18	18	10:05:40	OK	19	10:05:50	OK	20	10:06:00	OK
19	19	10:06:00	OK	20	10:06:10	OK	21	10:06:20	OK
20	20	10:06:20	OK	21	10:06:30	OK	22	10:06:40	OK
21	21	10:06:40	OK	22	10:06:50	OK	23	10:07:00	OK
22	22	10:07:00	OK	23	10:07:10	OK	24	10:07:20	OK
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24	24	10:07:40	OK	25	10:07:50	OK	26	10:08:00	OK
25	25	10:08:00	OK	26	10:08:10	OK	27	10:08:20	OK
26	26	10:08:20	OK	27	10:08:30	OK	28	10:08:40	OK
27	27	10:08:40	OK	28	10:08:50	OK	29	10:09:00	OK
28	28	10:09:00	OK	29	10:09:10	OK	30	10:09:20	OK
29	29	10:09:20	OK	30	10:09:30	OK	31	10:09:40	OK
30	30	10:09:40	OK	31	10:09:50	OK	32	10:10:00	OK
31	31	10:10:00	OK	32	10:10:10	OK	33	10:10:20	OK
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135	135	10:44:40	OK	136	10:44:50	OK	137	10:45:00	OK
136	136	10:45:00	OK	137	10:45:10	OK	138	10:45:20	OK
137	137	10:45:20	OK	138	10:45:30	OK	139	10:4	

04 SYSTEM H61: Features



Remote & Predictive Maintenance

For a transport process to be completed safely, the pneumatic tube system must be in a fully functional state at all times. To monitor this and detect potential problems at an early stage, we use **our Predictive Maintenance & Statistics App**. In addition, we offer **24/7 support with an experienced service department**, also as remote maintenance.



Hygienic Handling of Transported Goods

Especially in operating rooms, intensive care units and laboratories, it is important **to keep the air free of particles**. For this reason, we offer the initial or subsequent installation of HEPA filters for our pneumatic tube systems.

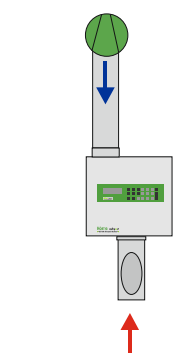


Taking Care of Sensitive Goods

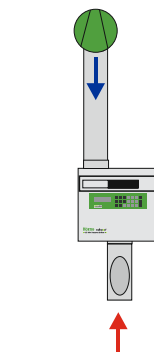
Various **inlays** for our carriers make them multifunctional and especially protective. The inlays are tailored for particular objects and their needs. Having a **leak-proof carrier** in the product range, enables us to transport even liquids like cytostatic drugs safely through our systems.

04 SYSTEM H61: Station Types

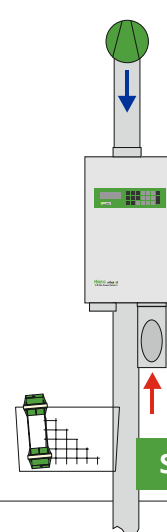
Bottom- Loading



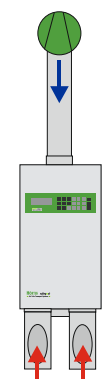
Station 421



Station 422



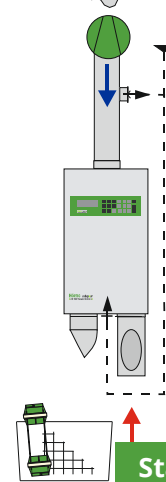
Station 451



Station 454

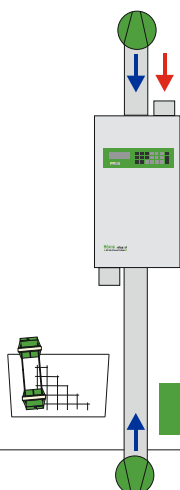


Station 455

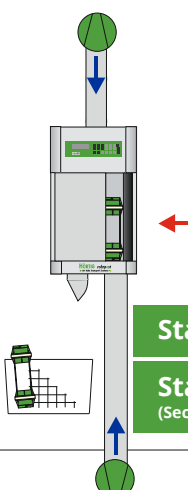


Station 452

Top- and Front -Loading

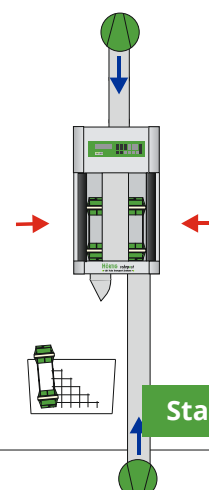


Station 472



Station 461

Station 465
(Secure Reception)



Station 462

→ = Senden / Send

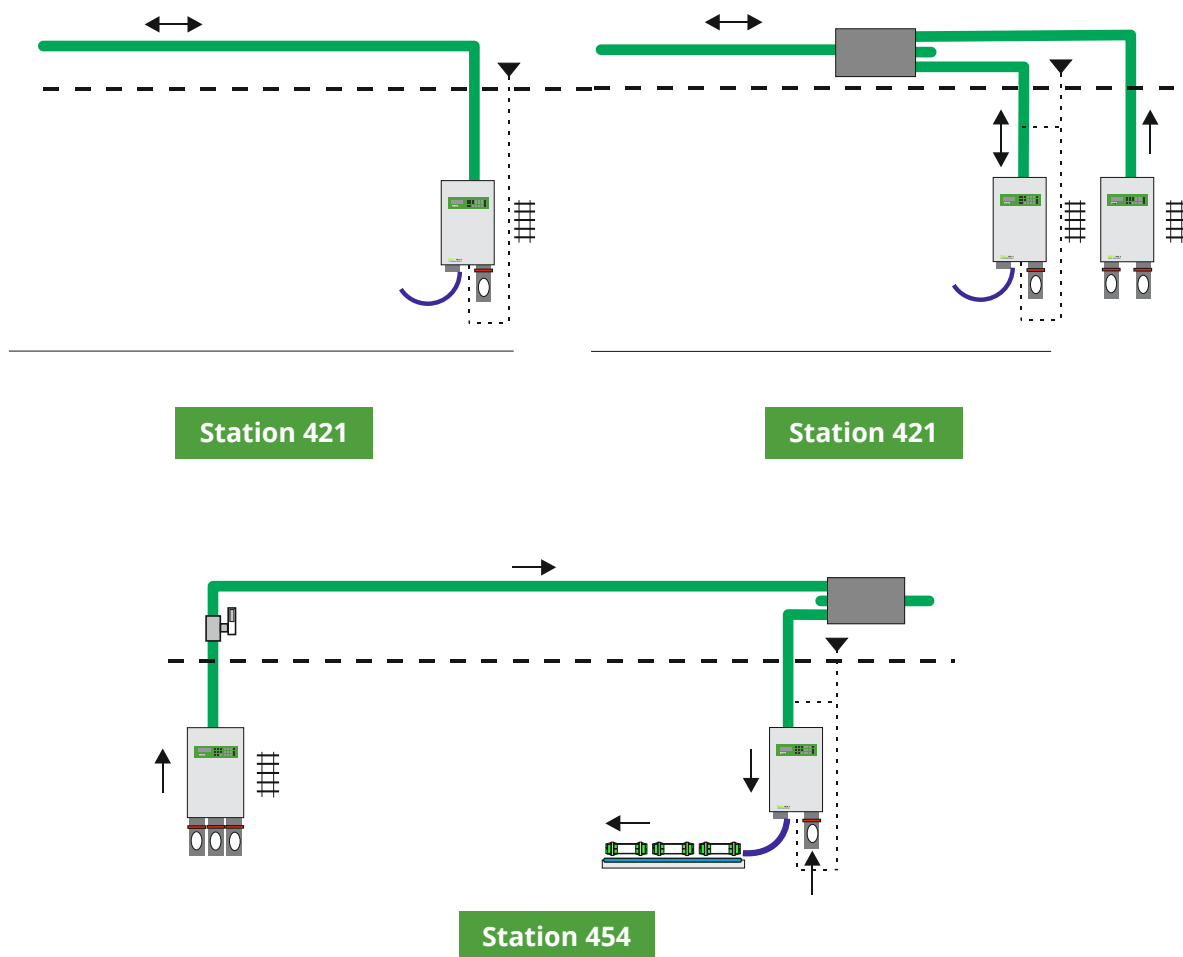
→ = Empfang / Receive



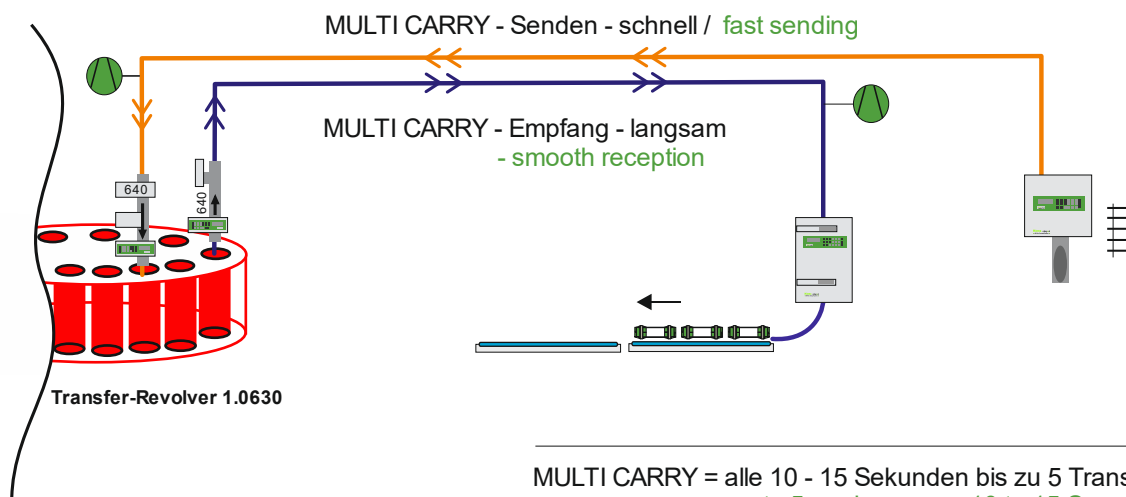
= Gebläse / Blower side

04 SYSTEM H61: Station Types

Laboratory Stations



Multicarry



MULTI CARRY = alle 10 - 15 Sekunden bis zu 5 Transportbehälter
up to 5 carriers every 10 to 15 Seconds



05 CYTOSTATIC DRUGS

SYSTEM H61

Send-Station for Cytostatic Drugs	1.0234.T.03	12
Carrier Leak-Proof with Flip Lid and Inner Carrier	1.9902.T.1; 1.9903.T.1; 1.8238.T.01; 1.8242.T.01	13

1.0234.T.03

Send-Station for Cytostatic Drugs



Station 1.0234.T.03 with keyboard 1.1363.0.GG, Left: Closed, Right: Opened waiting for carrier input

For

- Sending liquids with pneumatic tube systems, where it is important, that they do not leak (e.g. sending cytostatic drugs)
- Usage with leak-proof carriers type 1.9350.T.1L in combination with thermal insulated leak-proof inner carrier –The station can be used with other carriers as well, but only checks the closure of carriers type 1.9350.T.1L

Carrier departure

- Sending upwards
- Carrier is inserted at the front of the station
- Can hold one carrier while waiting for departure
- Carrier is not visible while waiting
- Due to the electronical locked loading flap, it is impossible to remove the carrier while waiting for dispatch

Carrier reception

This station is not suitable for receiving carriers.

Operation

- User inserts the carrier
- Station checks whether the carrier is correctly sealed and in a good condition
- Only then, it is added to the pneumatic tube system
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

The station has to be connected to a diverter.

Technical properties

Material: Sheet-steel moulded case, plastic covered

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca.1400 mm (h) × 500 mm (w) × 300 mm (d)

Weight: ca. 40 kg

ESD protected

Front cover with lock for maintenance works

Electronic position switches

Delivery scope

- Mechanical station only without control unit
- RFID reader for carriers waiting to be sent
- RFID reader for inner carrier body and lid
- Designed to be combined with with control unit 1.1363.0.GG (as shown in picture above) and carriers 1.9350.T.1L

Optional

- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.T.00

We reserve the right of changes!

1.9902.T.1/1.9903.T.1/1.8238.T.01/1.8242.T.01

Carrier Leak-Proof with Flip Lid and Inner Carrier



For:

- Secured double containment of cytostatic drugs sent in the general Air Tube Transport System of a hospital.

Material: ABS/PC

Characteristics:

Inner Carrier

- Leak Proof Screw Cap.
- Space for one infusion bag with tubing.
- Equipped with UHF RFID Tag.

Outer Carrier:

- One liquid proof flip lid
- Equipped with two RFID chips
- High-grade velcro rings

Handling:

- Insert the infusion bag containing cytotoxic drugs into the inner carrier and close the screw cap fully, so that the triangular marks on the lid and the body point at each other.
- Insert the inner container into the outer carrier 1.9902.T.1/1.9903.T.1 ensuring the arrows on the outer and inner containers match.
- The ridge on the lid of the inner carrier has to fit exactly into the guides inside the cap of the outer carrier. Only then, the outer carrier can be closed.

Delivery Scope

- Inner container 1.8238.T.1/1.8242.T.01
- Leak-Proof-Carrier 1.9902.T.1/1.9903.T.1

Optional:

- Colours: green, red, blue
- Different lengths: see table

Outer Carrier:

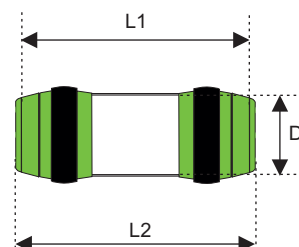
Dimension:

Loading length (L1): 380/420 mm
 Total length (L2): 396/436 mm
 Diameter (D): 123 mm
 Load capacity: 4.0 kg max.

Weight: 0.950 kg

Material: Plastic, impact and break resistant

Temperature resistant: Up to 60 °C



We reserve the right of changes!

Item No.	Do	Length	Bend Radius	Colour	Rings	RFID	Availability
1.9902.T.LHG4	160	380	800	Green	Velcro	RO 2	Available
1.9902.T.LHR4	160	380	800	Red	Velcro	RO 2	Available
1.9902.T.LHB4	160	380	800	Blue	Velcro	RO 2	Available
1.8238.T.01	Fits any of the above carriers.						

Item No.	Do	Length	Bend Radius	Colour	Rings	RFID	Availability
1.9903.T.LHG4	160	420	1200	Green	Velcro	RO 2	Available
1.9903.T.LHR4	160	420	1200	Red	Velcro	RO 2	Available
1.9903.T.LHB4	160	420	1200	Blue	Velcro	RO 2	Available
1.8242.T.01	Fits any of the above carriers.						



06 CENTRAL CONTROLLER

SYSTEM H61

Portable Programmer for H61E/F/G	1.1063.0.95	15
CC Central Controller H61 F/G with power supply 240 VA	1.1063.0.02	16
Netclient with Power Supply H61 F/G	1.1063.0.N2	17
Power Supply with Bridge H61 F/G	1.1063.0.P2	18

1.1063.0.95

Portable Programmer for H61 E/F/G



For

- Remote controlling of the system control unit and all system components from each station or diverter in the system

Examples for what can be controlled with the programmer

- In service maintenance mode:
 - Controlling diverter positions and monitoring sensor inputs
 - Sending cleaning carriers through the tube lines
- In programming mode:
 - Adjusting all device properties

Characteristics

- 45 buttons
- Graphic display with 128 × 64 px
- Coil cable with two meters length
- Magnetic holder for steel doors
- CAN-bus speed can be switched between 10 kBaud for H61E/F and 125 kBaud for H61G

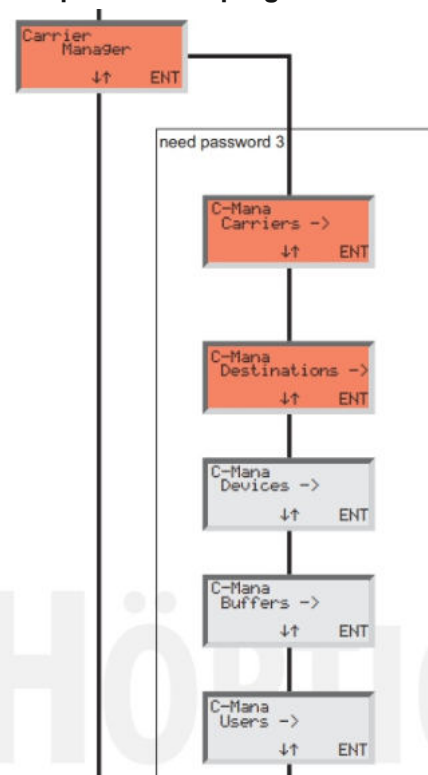
Delivery Scope

- Portable programmer

Optional

- Mifare reader for user identification to access the programmer's functions

Example from the programmer's interface:



We reserve the right of changes!

1.1063.0.02

CC Central Controller H61F/G With Power Supply 240 VA



1.1063.0.02

Application

- For System H61F and H61G

Characteristics

- Controls up to nine zones or one revolver and eight zones
- The internal power supply with 250 W can supply 20 stations and diverters

Integrated

- Two CAN bus interfaces with four connectors
- One Ethernet uplink port 100MBit
- One USB drive to save system configuration
- One Battery to keep data while power off
- One Power cable with SCHUKO plug
- Two fuses for power input

Input voltage

100 to 240 VAC

Housing:

Protection Class: IP20

Dimensions: 350 mm (w) × 320 mm (h) × 155 mm (d)

We reserve the right of changes!

1.1063.0.N2

Netclient with Power Supply H61F/G



1.1063.0.N2

Application

- For systems H61F and H61G
- If buildings have insulated groundings, the tube system can use fiber optic Ethernet for communication. The Netclient provides the Ethernet to CAN translation.
- The network segment in the new building will be supplied by the power supply of the Netclient

Characteristics

- Netclient provides CAN over Ethernet communication
- Data uplink to previous bus segment is insulated
- If the previous segment is power off, the Netclient will share this information with all components in its segment
- Netclient is an addressable component for maintenance and can be remote controlled
- The internal power supply with 250 W can supply 20 stations and diverters

Integrated

- Two CAN bus interfaces with four connectors
- One Ethernet uplink port 100MBit
- One USB drive to save system configuration
- One power cable with SCHUKO plug
- Two fuses for power input

Input voltage

100 to 240 VAC

Housing

Protection class: IP20

Dimensions: 350 mm (w) × 320 mm (h) × 155 mm (d)

We reserve the right of changes!

1.1163.0.P2

Power Supply with Bridge H61F/G



1.1163.0.P2

Application

- For System H61F and H61G

Characteristics

- Bridge refreshes the bus signals
- Data uplink to previous bus segment is insulated
- Power-off follows previous power supply
- Bridge card is an addressable component for maintenance
- The internal power supply with 250 W can supply 20 stations and diverters

Integrated

- One CAN bus interfaces opt coupled
- One CAN bus interface without opto coupling
- One Power cable with SCHUKO plug
- Two fuses for power input

Input voltage

100 to 240 VAC

Output voltage

48 V

Housing

Protection class: IP20

Dimensions: 350 mm (w) × 320 mm (h) × 155 mm (d)

We reserve the right of changes!



07 PC SOFTWARE

SYSTEM H61

PC Software **RT-WIN 4.0** License

2.4000.0.P0

20

2.4000.0.P0

PC-Software RT-WIN 4.0 License



Apps as displayed on the PC

General

- App-based modular software
- Used to supervise pneumatic tube systems H61F
- Displays the status of the system as well as useful statistics, e.g. the MTBF and the system usage
- Helps to improve the efficiency of the running system and to identify errors at an early stage
- Multilingual: German, English, French, Chinese, Thai, Korean, Russian etc.

Provided app modules in basic package:

History App

- All transports are listed up with date, time, sender and receiver information
- RFID tags of carriers and users are shown
- Exceptions are recorded with transports
- Follows the current transports in real-time

Device State App

- List of all devices with their current status and motor positions
- Device purge can be triggered, so carriers left in the tube system can be blown out

Graphics App

- 3D real time monitoring of all system states
- Mechanical positions of diverters
- Ongoing transports are displayed

Programmer App

- Initiate tests
- Initiate system repair functions
- Edit setup parameters

Provided app modules that can be ordered additionally:

Users App

- Management of user roles within the software (e.g. distribution of rights to specific user roles)
- Management of rights for access to RT-Win apps as well as to pneumatic tube stations (e.g. only specific users get the right to send to specific destinations by presenting their Mifare-card)
- User data are stored in a SQL database which can be accessed by the customer's user data base for automatic synchronisation

Text Customization App

- All texts and terms are customizable and translatable to any language UTF-8

Predictive Maintenance App (PMA)

- Predicts possible sources of malfunctions on the basis of various statistical data (e.g. condition of the carriers in use)
- Administration of maintenance intervals of devices and carriers (e.g. carriers are ejected to a washing station)

Alarm Manager

- Supervises alarms and system status (e.g. in case of fire alarms, HEPA-filter is full or blower temperature exceeds limit)
- Initiates actions like stopping specific parts of the pneumatic tube system in a specific building in case of an alarm
- Sends alert e-mails to technicians

Desk App

- Shows current status of a laboratory receive station on a screen
- To be installed in the break room, so staff has a remote overview

Shift-Lead-Console App (SLC)

- Shows the current status of the complete DCS as a block diagram that gives quick and easy information about the real-time availability of the tube system

Arrive Screen App

- Shows all approaching transports for one location on a screen
- Displays the respective status of the transports: Waiting, in transport, late, arrived
- Gives information about every transport, e.g.: sender, receiver, job ID, priority, times, user ID

Departure Screen App

- Works like the arrival screen but for all departing transports of one location

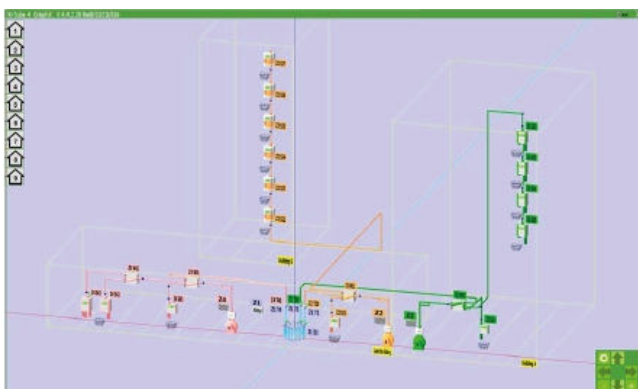
Check-in/Check-out App

- Laboratory sample test tubes and carriers in use are registered to a database at the send station as well as at the receive station
- The system indicates missing test tubes on arrival

Provided customer-specific app modules:

Fire and Gas Alarms App (F&G)

- Customer-specific connection of a SQL-based fire and gas alarm system to the pneumatic tube system
- Pneumatic tube system will automatically be stopped partially or fully in case of an alarm



3D real-time view of the actual state of the connected zones in the Graphics App

Predictive Maintenance App

Laboratory Information Management App (LIMS)

- Customer-specific connection of the pneumatic tube system to a SQL-based laboratory information management software
- LIMS will redirect carriers to specific laboratories in according to the desired analysis

System Requirements R-Tube Client

Processor: Pentium 2Ghz
RAM: 8 Gbyte
Harddisk: 80 GB
Mouse: Wheel-Mouse
Keyboard: Standard
Graphics-Card: 2GB, OpenGL
Network: 1000 Mbit

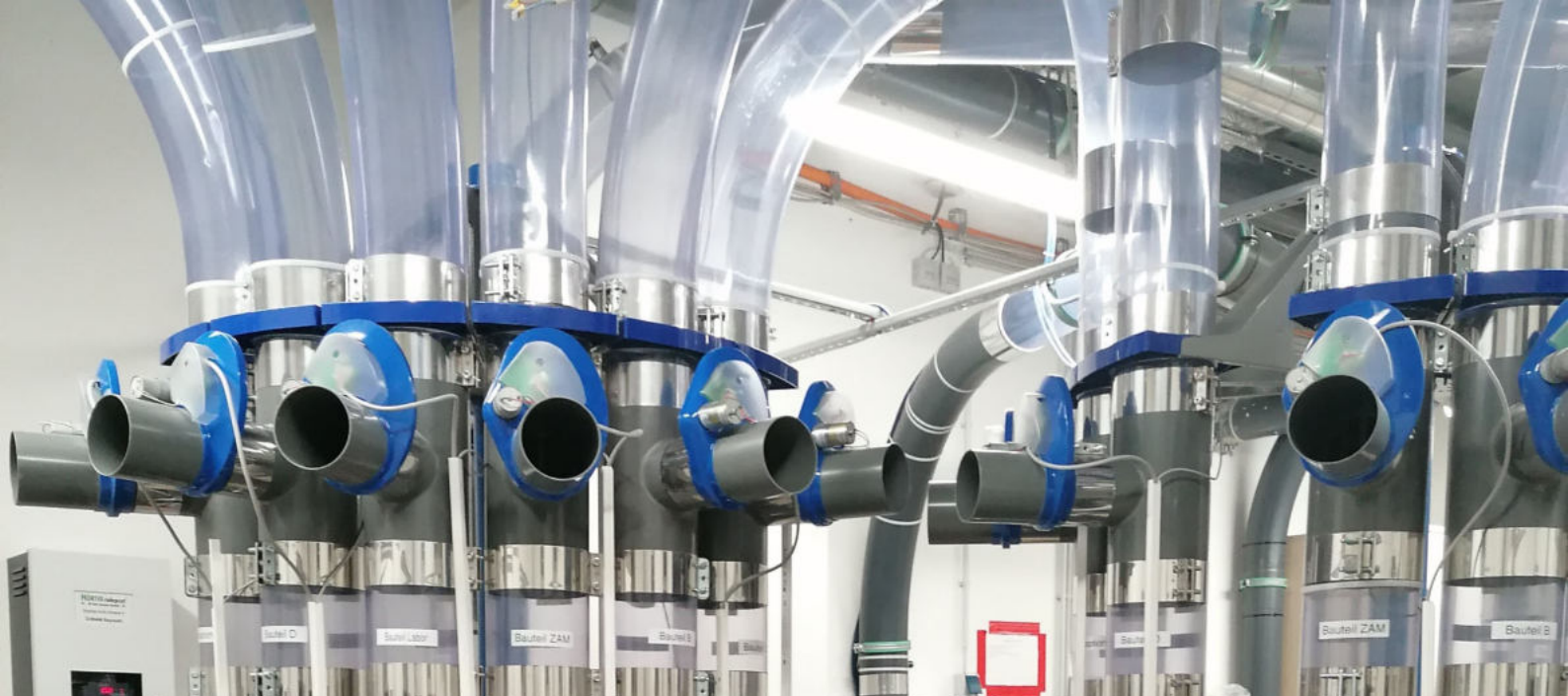
System Requirements R-Tube Host

Processor: Pentium 3Ghz
RAM: 8 Gbyte (recommended: 16GB)
Harddisk: 1000 GB
Mouse: Wheel-Mouse
Keyboard: Standard
Network: 1000 Mbit

3rd-Party Software Requirements

Operating system: Windows 10
Remote Maintenance: TeamViewer
Security: Malware protection software
Others: PDF-reader, e.g. Acrobat Reader

We reserve the right of changes!



08 MULTIPLE ZONES ACCESSORIES

SYSTEM H61

Transfer Revolver 16 Lines H61F (Do110)	1.0630.6.OF	23
Transfer Revolver 16 Lines H61F (Do160)	1.0630.T.OF	24
Kit V-Flange Per Line / Transfer Revolver Zone Connection	1.0640.6.VB; 1.0641.6.OF; 1.0643.6.OF	25
Kit V-Flange Per Line / Transfer Revolver Zone Connection	1.0640.T.VB; 1.0641.T.OF; 1.0643.T.OF	26

1.0630.6.0F

Transfer Revolver 16 Lines H61F (Do110)



Transfer Revolver 1.0630.6.0F



Transfer Revolver 1.0630.6.0F with Flanges 1.0640.6.VB,
and Zone Connection FIFO 1.0643.6.0F

For

- 2 – 16 zones Do110

Characteristics

The Revolver has the following advantages over diverter transfers or linear transfer units:

- Storage for up to 16 carriers in each revolver
- Carriers with high priority will be sent first (carriers with lower priority are buffered in the meantime)
- Carriers which can not be sent to their destination because e.g. the destination's basket is full, will also be stored and sent automatically, once the problem has been cleared
- Carriers of the same priority will be sent in the order of arrival (FIFO)
- All transfer data will be stored
- Latest transponder technology ensures that the right carrier arrives at the right destination
- Every carrier is read at the entrance as well as at the exit
- The revolver is:
 - + more compact
 - + faster
 - + able to manage sending priorities
 - + provides significant buffer capacity per line

Installation

- The required space for three zones with transfer is:
5 m (l) × 3 m (w) × min. 3 m (h)

The height can be adjusted to fit the constraints of the technical room (low ceiling).

Technical properties

Material: Steel

Tube: Do110

Dimensions: 3000 x 1500 x 1500

Requirements

- Single phase power 110/240 V 250 W

Delivery scope

- We do not include the FIFOs which are necessary to connect zones to the revolver

Optional

- Special product options for low ceilings
- Other tube dimensions available (Do100, 103, 132, 160)

We reserve the right of changes!

1.0630.T.0F

Transfer Revolver 16 Lines H61F (Do160)



Transfer Revolver 1.0630.T.0F



Transfer Revolver 1.0630.T.0F with Flanges 1.0640.T.VB,
Zone Connection FIFO 1.0643.T.0F and carriers 1.9350.T.1B

For

- 2 – 16 zones Do160

Characteristics

The Revolver has the following advantages over diverter transfers or linear transfer units:

- Storage for up to 16 carriers in each revolver
- Carriers with high priority will be sent first (carriers with lower priority are buffered in the meantime)
- Carriers which can not be sent to their destination because e.g. the destination's basket is full, will also be stored and sent automatically, once the problem has been cleared
- Carriers with the same priority will be sent in the order of arrival (FIFO)
- All transfer data will be stored
- Latest transponder technology ensures that the right carrier arrives at the right destination
- Every carrier is read at the entrance as well as at the exit
- The revolver is:
 - + more compact
 - + faster
 - + able to manage sending priorities
 - + provides significant buffer capacity per line

Installation

- The required space for three zones with transfer is: min. 3 m (h) × 3 m (w) × 5 m (l)

The height can be adjusted to fit the constraints of the technical room (low ceiling).

Technical properties

Material: Steel

Tube: Do160

Dimensions: 3000 (h) × 1500 (w) × 1500 (l) mm

Unladen Weight: 134 kg

Requirements

- Single phase power 110/240 V 250 W

Delivery scope

- We do not include the FIFOs which are necessary to connect zones to the revolver

Optional

- Special product options for low ceilings
- Other tube dimensions available (Do100, 103, 110, 132)

We reserve the right of changes!

1.0640.6.VB / 1.0641.6.0F / 1.0643.6.0F

Kit V-Flange Per Line / Transfer Revolver Zone Connection



Kit V-Flange 1.0640.6.VB



*Transfer Revolver Zone
Connection 1.0643.6.0F*



*Transfer Revolver Zone
Connection 1.0641.6.0F*

V-Flange for FIFO

Characteristics

- Fixing for Zone Connection FIFO to the Transfer Revolver

Delivery Scope

- Pair of flanges with sealring

Zone Connection FIFO

Characteristics

- Connects Transfer Revolver to the zone
- For both incoming and outgoing carriers (1.0641.6.0F)
- For a stack of incoming carriers from a multicarry (1.0643.6.0F)
- Includes motor valves for pneumatic breaking and soft arrival of incoming carriers

Technical properties

Material: Steel, ABS and PVC

Tube: Do110

Delivery scope

- Includes all necessary tube switches

Accessories

- Additional RFID reader for carriers before falling into revolver

We reserve the right of changes!

1.0640.T.VB / 1.0641.T.OF / 1.0643.T.OF

V-Flange for FIFO / Transfer Revolver Zone Connection



Kit V-Flange 1.0640.T.VB



Transfer Revolver Zone
Connection 1.0643.T.OF



Transfer Revolver Zone
Connection 1.0641.T.OF

V-Flange for FIFO

Application

- Fixing for Zone Connection FIFO to the Transfer Revolver

Technical properties

Material: Steel

Tube: Do160

Weight: 3.25 kg

Delivery Scope

- Pair of flanges with sealring

Zone Connection FIFO

Application

- Connects Transfer Revolver to the zone

Characteristics

- For both incoming and outgoing carriers (1.0641.T.OF)
- For a stack of incoming carriers from a multicarry (1.0643.T.OF)
- Includes motor valves for pneumatic breaking and soft arrival of incoming carriers

Technical properties

Material: Steel and ABS and PVC

Tube: Do160

Weight: 10.5 kg (1.0641.T.OF), 13.8 kg (1.0643.T.OF)

Delivery scope

- Includes all necessary tube switches

Accessories

- Additional RFID reader for carriers before falling into revolver

We reserve the right of changes!



09 LABORATORY STATIONS

SYSTEM H61

End Station H61F	1.0222.6.02	28
End Station H61G	1.0222.6.03	29
End Station H61F	1.0222.T.02	30
End Station H61G	1.0222.T.03	31
Lab Receive Stations – Non Multicarry	1.0222.T.02; 1.0652.T.1F; 1.0653.T.1F	32
Lab Receive Stations – Multicarry	1.0655.T.0F; 1.0656.T.0F; 1.0657.T.0F	34
Lab Send Station – Vertical Down (Multicarry)	1.0671.T.0F	36
Lab Send Station – Vertical Up (Multicarry)	1.0672.T.DF	37
Lab Send Station – Horizontal with One Belt (Multicarry)	1.0675.T.1F	38
Lab Send Station – Horizontal with Two Belts (Multicarry)	1.0676.T.1F	39

1.0222.6.02

End-Station H61F



Station 1.0222.6.02 with keyboard H61F 1.1363.0.DF

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal motor valve is closed while carrier is approaching
- It opens to release the carrier after arrival
- In stand-by the motor valve is open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Housing: ca. 378 mm (h) × 375 mm (w) × 250 mm (d)

Weight: ca. 11.5 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode

Accessories

- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00

We reserve the right of changes!

1.0222.6.03

End-Station H61G



Station 1.0222.6.02 with keyboard H61G 1.1363.0.GG

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal motor valve is closed while carrier is approaching
- It opens to release the carrier after arrival
- In stand-by the motor valve is open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Housing: ca. 378 mm (h) × 375 mm (w) × 252 mm (d)

Weight: ca. 11.5 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode

Accessories

- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00

We reserve the right of changes!

1.0222.T.02

End-Station H61F



Left: Station 1.0222.T.02 with keyboard H61F 1.1363.0.DF – Right: Station 1.0222.T.02 with keyboard H61F 1.1363.0.DF, reception conveyor belt 1.0027.T.00 + 1.0750.V.00 and carrier 1.9350.T.1L

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal motor valve is closed while carrier is approaching
- It opens to release the carrier after arrival
- In stand-by the motor valve is open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca. 375 mm (h) × 500 mm (w) × 302 mm (d)

Weight: 17.6 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode

Accessories

- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00

We reserve the right of changes!

1.0222.T.03

End-Station H61G



Left: Station 1.0222.T.03 with keyboard H61G 1.1363.0.HG – Right: Station 1.0222.T.03 with keyboard H61G 1.1363.0.GG, reception conveyor belt 1.0027.T.00 + 1.0750.V.00 and carrier 1.9350.T.1L

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal motor valve is closed while carrier is approaching
- It opens to release the carrier after arrival
- In stand-by the motor valve is open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca. 375 mm (h) × 500 mm (w) × 304 mm (d)

Weight: 17.6 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode

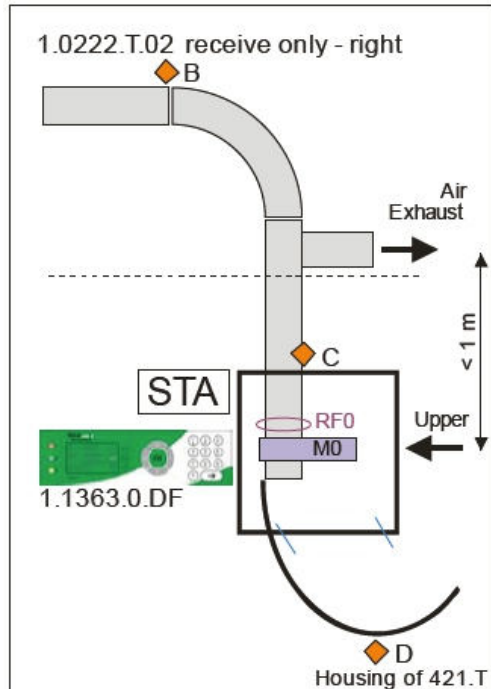
Accessories

- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00

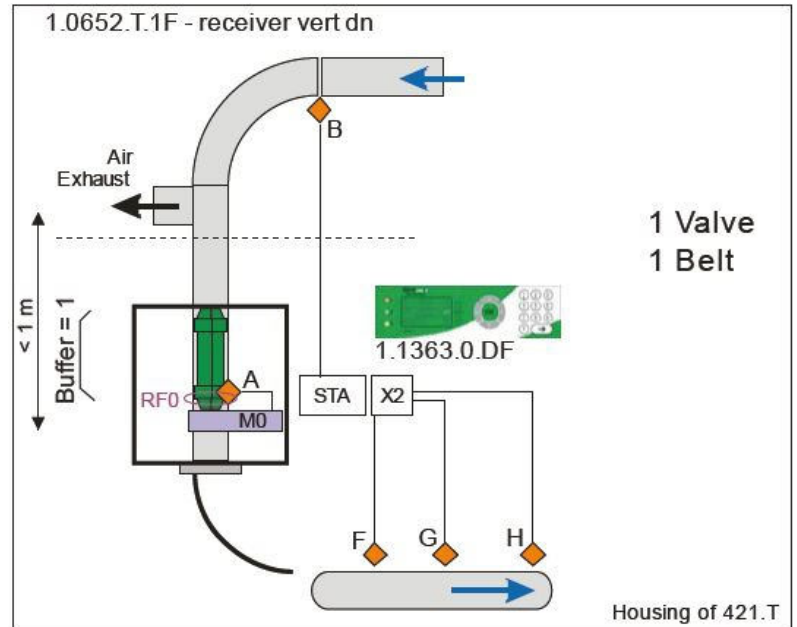
We reserve the right of changes!

1.0222.T.02 / 1.0652.T.1F / 1.0653.T.1F

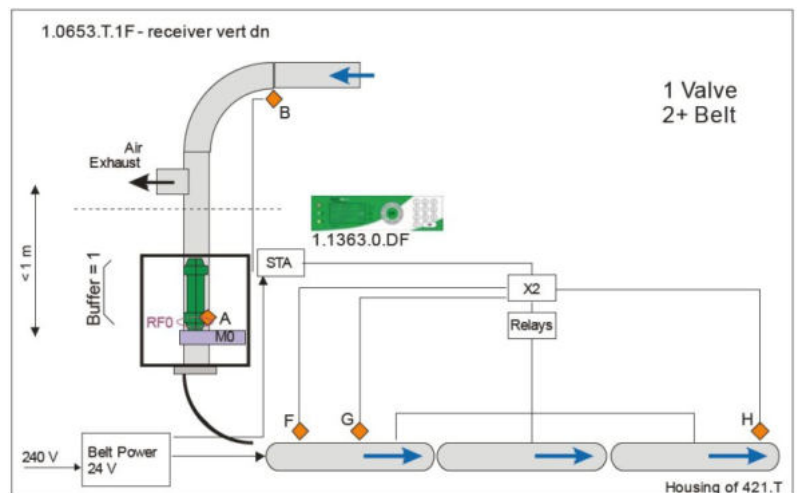
Lab Receive-Stations - Non Multicarry



Composition of station 1.0222.T.02



Composition of station 1.0652.T.1F



Composition of station 1.0653.T.1F

The stations 1.0222.T.02, 1.0652.T.1F and 1.0653.T.1F have the same basic construction but different outlet methods:

- 1.0222.T.02: reception bow
- 1.0652.T.1F: one conveyor belt
- 1.0653.T.1F: more than one conveyor belt

Carrier reception with reception bend (1.0222.T.02)

- Arrival of the carrier from upwards
- Carriers brake on an in-built column of air
- The carrier will be led carefully 90 grades into horizontal position and doesn't fall into a basket
- The bend can hold up to two carriers

Carrier reception with conveyor belt(s) (1.652/653.T.1F)

- Arrival of the carrier from upwards
- Carriers brake on an in-built column of air
- Carriers arrive smoothly on the conveyor belt(s)
- The belt(s) pulls them automatically to the end of the belt so further carriers can arrive
- One belt can hold up to 4 carriers, two belts up to 8 carriers and so on

Operation

- Station is not capable of Multicarry
- Internal motor valve is closed while carrier is approaching
- It opens to release the carrier after arrival
- In stand-by the motor valve is closed
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

The station can be located in the bottom of a station chain, as the end of a point-to-point system or at a diverter.

Technical properties

Material: PVC, sheet-steel

Colour: RAL7035

Tube: Do160

Housing: ca. 375 mm (h) × 500 mm (w) × 302 mm (d)

Weight: 12 kg (222), 22 kg (652), 32 kg (653)

ESD protected

Delivery scope 1.0222.T.02

- Station 1.0222.T.02
- Items that have to be ordered additionally to get the installation as shown above
 - Control unit 1.1363.0.DF
 - Reception bend 1.0026.T.00

Delivery scope 1.0652.T.1F

- Station 1.0652.T.1F, including:
 - X2 card
 - Antenna
 - RSA
 - RSB
 - Control unit 1.1363.0.DF
- Items that have to be ordered additionally to get the installation as shown above
 - Steel curve 1.0027.T.00
 - Reception conveyor belt 1.0750.V.00, including belt and belt sensor RSF

Delivery scope 1.0653.T.1F

- Station 1.0653.T.1F, including:
 - X2 card
 - Antenna
 - RSA
 - RSB
 - Control unit 1.1363.0.DF
- Items that have to be ordered additionally to get the installation as shown above
 - Steel curve 1.0027.T.00
 - Two units of reception conveyor belt 1.0750.V.00 for installing two belts and three units for installing three belts, including: belt(s), belt sensor RSF, RSH
 - One unit of belt connection set for installing two belts and two units for installing three belts
 - Belt power supply with motor control relay

Optional

- Order the station without housing

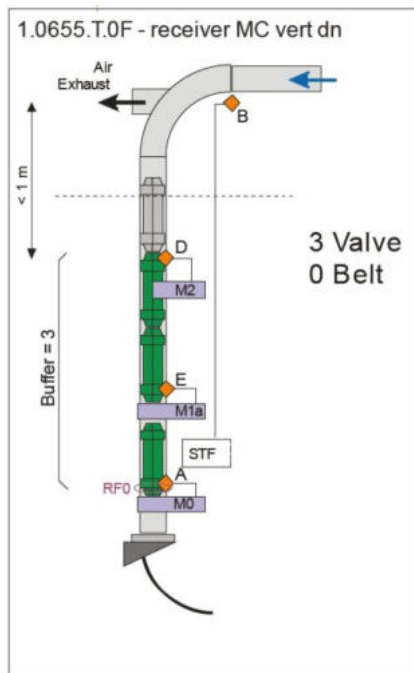
Accessories

- RFID reader for arriving carriers
- RFID reader for user to release carriers in secure reception mode
- Rail full contact 1.0026.0.02 (only for 1.0222.T.02)
- T-piece for air exhaust (only for 1.0652 and 1.0653.T.1F)
- Additional belt sensors (only for 1.0652.T.1F)

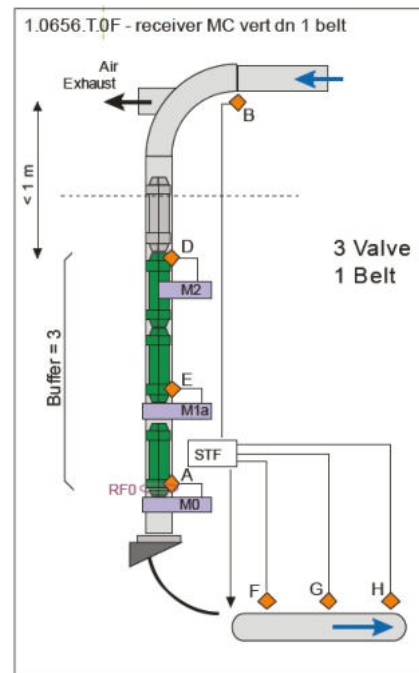
We reserve the right of changes!

1.0655.T.OF / 1.0656.T.OF / 1.0657.T.OF

Lab Receive-Stations – Multicarry



Composition of Station 1.0655.T.OF



Composition of Station 1.0656.T.OF

The stations 1.0655.T.OF, 1.0656.T.OF and 1.0657.T.OF have the same basic construction but different outlet methods:

- 1.0655.T.OF: reception bend
- 1.0656.T.OF: one conveyor belt
- 1.0657.T.OF: more than one conveyor belt

Carrier reception with reception bend (1.0655.T.OF)

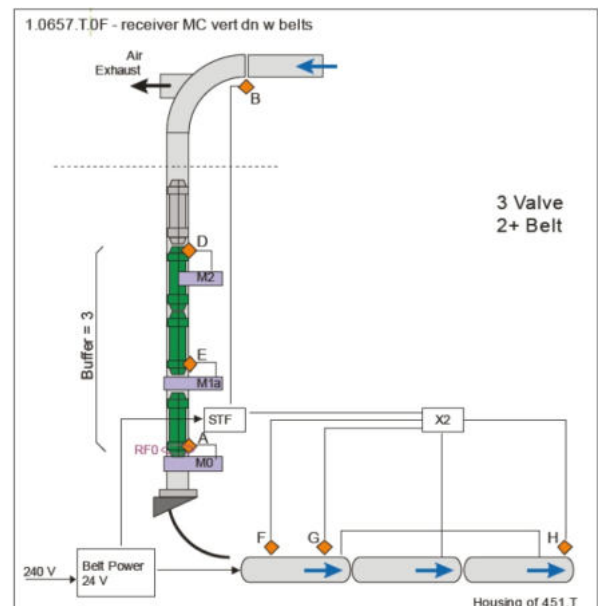
- Arrival of the carrier from top
- Carriers brake on an in-built column of air
- The carriers will be led carefully 90 grades into horizontal position and don't fall into a basket
- The bend can hold up to two carriers

Carrier reception with conveyor belt (1.656/657.T.OF)

- Arrival of the carrier from top
- Carriers brake on an in-built column of air
- Carriers arrive smoothly on the conveyor belt(s)
- The belt(s) pulls them automatically to the end of the belt so further carriers can arrive
- One belt can hold up to 4 carriers, two belts up to 8 carriers and so on

Operation

- The station is capable of Multicarry
- The station can buffer up to 7 carriers
- Internal motor valve is closed while carrier is approaching
- It opens to release the first carrier after arrival while another valve is holding the other carriers waiting to be dropped after the first one
- In stand-by all motor valves are closed
- Station will brake each arriving carrier and put it on top of the stack



Composition of Station 1.0657.T.OF

Location

The station is a receive-station in a Multicarry zone. There can be several senders, but only one receiver in this kind of Multicarry zone.

Technical properties

Material: PVC, sheet-steel
Tube: Do160
Housing: no housing
Weight: 25 kg (655), 35 kg (656), 45 kg (657)
 ESD protected

Delivery scope 1.0655.T.0F

- Station 1.0655.T.0F, including:
 - Antenna
 - RSA
 - RSB
 - RSD
 - RSE
 - STF card
- Items that have to be ordered additionally to get the installation as shown above:
 - One wall support flange 1.0640.T.W1

Delivery scope 1.0656.T.0F

- Station 1.0656.T.0F, including:
 - Antenna
 - RSA
 - RSB
 - RSD
 - RSE
 - STF card
- Items that have to be ordered additionally to get the installation as shown above:
 - Wall support flange 1.0640.T.W1
 - X2 Card 1.1563.0.5x
 - Steel curve 1.0027.T.0A
 - One unit of reception conveyor belt 1.0750.V.00

Delivery scope 1.0657.T.0F

- Station 1.0656.T.0F, including:
 - Antenna
 - RSA
 - RSB
 - RSD
 - RSE
 - STF card
- Items that have to be ordered additionally to get the installation as shown above:
 - Wall support flange
 - X2 Card 1.1563.0.5x
 - Steel curve 1.0027.T.0A
 - Two units of reception conveyor belt 1.0750.V.00 for installing two belts and three units for installing three belts, including: Belts, RSF, RSG
 - One unit of belt connection set 1.0750.V.01 for installing two belts and two units for installing three belts
 - Belt power supply with motor control relay 1.0755.0.0F

Optional

- Case the station with a housing:
 - With Hörtig-housing or
 - With big wall support flange plate and technical drawing for a carpenter who builds a customized housing

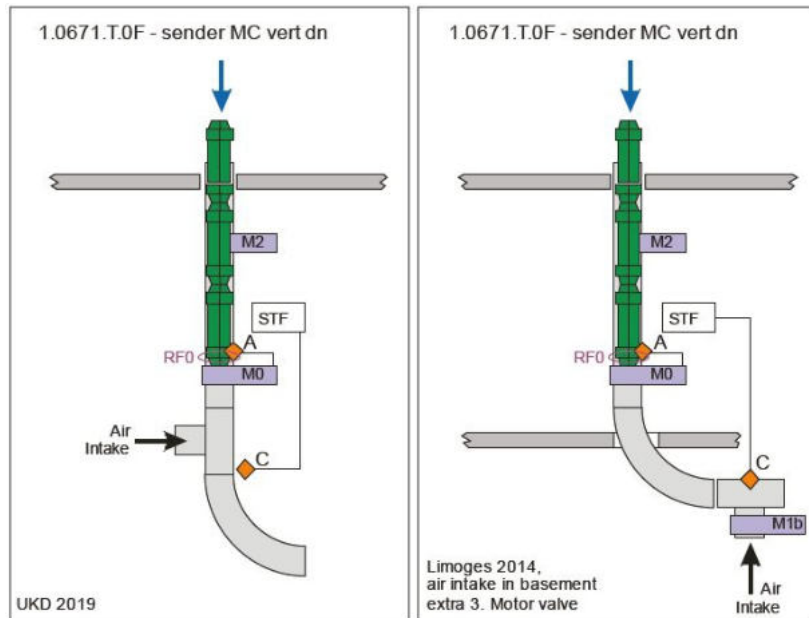
Accessories

- T-Piece for air exhaust
- Additional belt sensors 1.0750.V.02 (only for the station 1.0656.T.0F and 1.0657.T.0F)
- RFID reader for arriving carriers

We reserve the right of changes!

1.0671.T.0F

Lab Send-Station Vertical-Down Orientation (Multicarry)



Carrier departure

- Sending vertical downwards
- Carrier is inserted at the top of the station
- Can hold up to three carriers while waiting for departure
- Last inserted carrier is visible while waiting
- Station sends to fix destination or RFID home address

Operation

- Station is capable of Multicarry
- Station is not able to address destinations unless additional 10" touch panel is installed

Location

The station has to be connected to a diverter or directly to the single receive station of the zone. Several of these stations can be connected to a diverter.

Installation variations

- Motor valve M1 can manage the air inlet if the T-piece is in a horizontal position
- Motor valve M2 will hold the second waiting carrier if a Multicarry send shall be used

Technical properties

Material: ABS and PVC
Tube: Do160
Housing: no housing
Weight: 30 kg
 ESD protected

Delivery scope

- Station 1.0671, including
 - Antenna
 - RSA
 - RSC
 - STF card

Optional

- T-piece (1.0852.T.00)
- 117.6 used as Mot1b plus cable and adaptors
- X1 for long range antenna (1.1563.0.41)

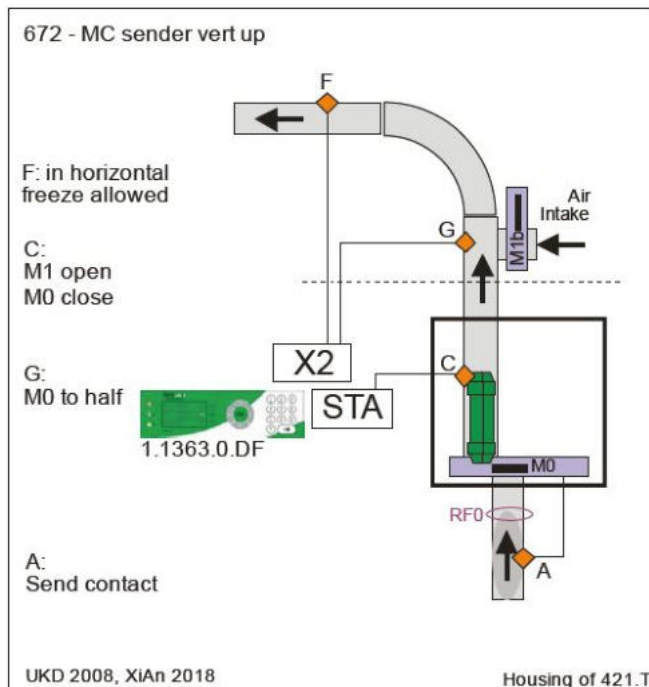
Accessories

- Carrier rack 1.9001.T.00
- 10" touch panel (makes addressing of destinations possible)

We reserve the right of changes!

1.0672.T.DF

Lab Send-Station Vertical-Up (Multicarry)



Composition of station 1.0672.T.DF



Station 1.0672.T.DF with arrival/departure screen

Carrier departure

- Sending upwards vertical
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier is visible while waiting

Operation

- Station is capable of Multicarry departure
(Can send one carrier every 10 seconds depending on how the system is designed)

Location

The station is a send station in a Multicarry zone.
There can be several senders, but only one receiver in this kind of Multicarry zone.

Technical properties

Material: PVC, sheet-steel

Colour: RAL7035

Tube: Do160

Housing: 375 mm (h) × 500 mm (w) × 302 mm (d)

Weight: 10 kg

ESD protected

Delivery scope

- Station 1.0672.T.DF, including:
 - STA card with LCD and keyboard (1.1363.0.DF)
 - X2 card for RFID and RSF connection (1.1563.0.51)
 - T-piece with an exit 110 mm (1.0852.T.00)
 - Motor valve for air intake control (1.0117.6.02)
 - 4 carrier sensors RSA, RSG, RSC, RSF (1.1606.V.0D)
 - Device sleeve (1.6080.T.00)
 - Cable for external valve 2.5 m (7.2558.0.25)
 - RFID antenna (1.0627.T.24)

Optional

- RFID reader for user to identify the sender

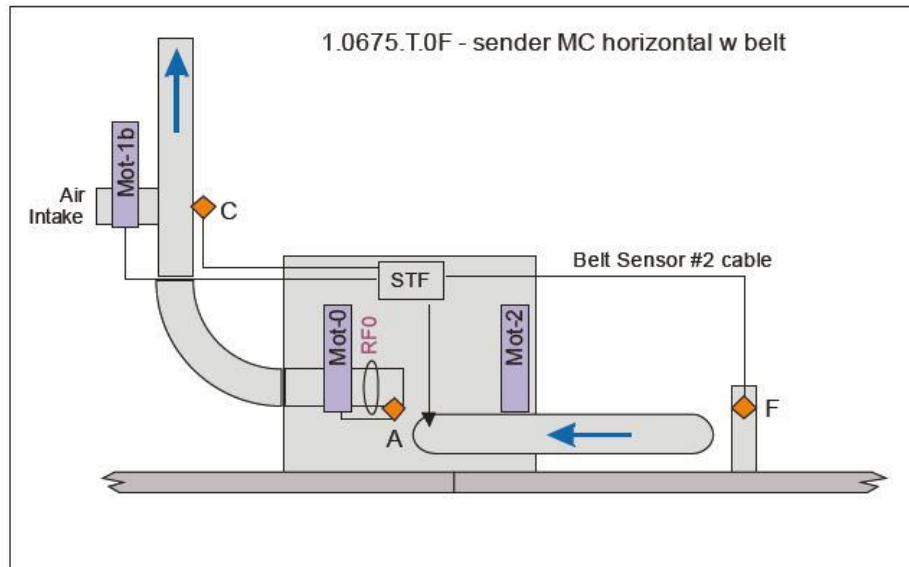
Accessories

- Carrier rack 1.9001.T.00

We reserve the right of changes!

1.0675.T.1F

Lab Send-Station Horizontal Orientation with One Belt (Multicarry)



Carrier departure

- Sending upwards
- Carriers are put down on the conveyor belt that pulls them into the station (due to light-barrier recognizing the carriers)
- The carriers depart automatically
- Can hold 4 carriers while waiting for departure
- Carriers are visible while waiting

Operation

- Station is capable of Multicarry departure
(Can send one carrier every 10 seconds depending on how the system is designed)

Location

The station is a send-station in a Multicarry zone.
 There can be several senders, but only one receiver in this kind of Multicarry zone.

Technical properties

Material: PVC, Sheet-steel
Colour: RAL7035
Tube: Do160
Housing: 520 mm (h) × 1880 mm (w) × 250 mm (d)
Weight: 30 kg
 ESD protected

Delivery scope

- Station 1.0675.T.0F, including:
 - Return station table top type, with two motors and STF (1.0754.T.00)
 - RFID antenna (1.0627.T.24)
 - T-piece with an exit 110 mm (1.0852.T.00)
 - Motor valve for air intake control (1.0117.6.02)
 - Two carrier sensors RSA, RSC (1.1606.V.0D)
 - Three device sleeves (1.6080.T.00)
 - Cable for external valve 2.5 m and belt end reflex sensor RSF (7.2558.0.25)
 - Belt with one sensor (1.0750.V.00)

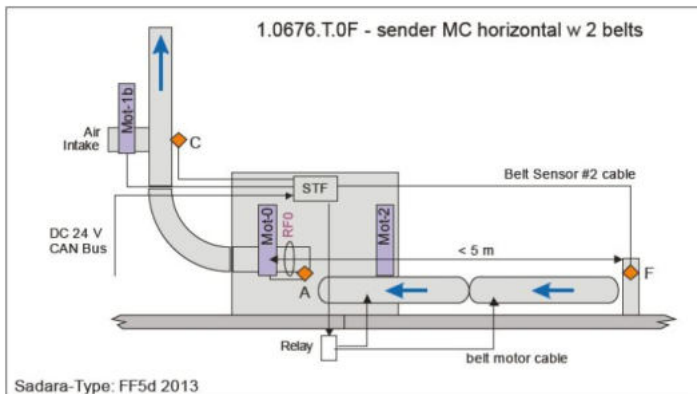
Accessories

- Carrier rack 1.9001.T.00

We reserve the right of changes!

1.0676.T.1F

Lab Send-Station Horizontal Orientation with Two Belts (Multicarry)



Red marked: Station 1.0676.T.1F

Carrier departure

- Sending upwards
- Carriers are put down on the conveyor belt that pulls them into the station (due to light-barrier recognizing the carriers)
- The carriers depart automatically
- Can hold 4 carriers while waiting for departure
- Carriers are visible while waiting

Operation

- Station is capable of Multicarry departure (Can send one carrier every 10 seconds depending on how the system is designed)

Location

The station is a send station in a Multicarry zone. There can be several senders, but only one receiver in this kind of Multicarry zone.

Technical properties

Material: PVC, Sheet-steel

Colour: RAL7035

Tube: Do160

Housing: 520 mm (h) × 3380 mm (w) × 250 mm (d)

Weight: 40 kg

ESD protected

Delivery scope

- Station 1.0676.T.0F, including:
 - Return station table top type, with two motors and STF (1.0754.T.00)
 - RFID antenna (1.0627.T.24)
 - T-piece with an exit 110 mm (1.0852.T.00)
 - Motor valve for air intake control (1.0117.6.02)
 - Two carrier sensors RSA, RSC (1.1606.V.0D)
 - Three device sleeves (1.6080.T.00)
 - Cable for external valve 2.5 m and belt end reflex sensor RSF (7.2558.0.25)
 - Two belts with one sensor (1.0750.V.00)
 - Belt connection set (1.0750V.01)

Accessories

- Carrier rack 1.9001.T.00

We reserve the right of changes!



10 ADVANCED STATIONS

SYSTEM H61

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1.0421.6.02 / 1.0422.6.02

Send- and Receive-End-Station H61F



Left: Station 1.0422.6.02 with keyboard H61F 1.1363.0.DF – Right: Station 1.0422.6.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.7.00 and carriers 1.9224.6.1A / 1.9315.6.1A

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air (1.0422.6.02)
- Carriers are stopped by central brake before approaching the station (1.0421.6.02)

Operation 1.0421.6.02

- Send slot moves to the right to clear the way for arriving carrier
- Approaching carrier activates sensor
- Central brake cuts off airflow and stops carrier
- Carrier falls into basket and send slot moves back into middle position

Operation 1.0422.6.02

- Internal motor valve is closed while carrier is approaching
- Approaching carrier activates sensor
- Send slot moves to the right and motor valve opens to release the carrier
- In stand-by the motor valve is half open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do110

Housing: ca. 378 mm (h) × 375 mm (w) × 250 mm (d)

Weight: ca. 13 kg (1.0422.6.02) / 12.5 kg (1.0421.6.02)

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode (1.0422.6.02 only)
- RFID reader for user to identify the sender
- Also available in Do132 (1.0421.7.02/1.0422.7.02)

Accessories

- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00

We reserve the right of changes!

1.0421.T.02 / 1.0422.T.02

Send- & Receive-End-Station H61F



Station 1.0421.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air (1.0422.T.02)
- Carriers are stopped by central brake before approaching the station (1.0421.T.02)

Operation 1.0421.T.02

- Send slot moves to the right to clear the way for arriving carrier
- Approaching carrier activates sensor
- Central brake cuts off airflow and stops carrier
- Carrier falls into basket and send slot moves back into middle position

Operation 1.0422.T.02

- Internal motor valve is closed while carrier is approaching
- Approaching carrier activates sensor
- Send slot moves to the right and motor valve opens to release the carrier
- In stand-by the motor valve is half open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 375 mm (h) × 500 mm (w) × 302 mm (d)

Weight: ca. 19 kg (1.0421.T.02) / 21.5 kg (1.0422.T.02)
ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode (1.0422.T.02 only)
- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00

We reserve the right of changes!

1.0421.6.03 / 1.0422.6.03

Send- and Receive-End-Station H61G



Left: Station 1.0422.6.03 with keyboard H61G 1.1363.0.GG – Right: Station 1.0422.6.03 with keyboard H61G 1.1363.0.GG, reception basket 1.0743.0.00, carrier rack 1.9001.7.00 and carrier 1.9224.6.1A / 1.9315.6.1A

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air (1.0422.6.03)
- Carriers are stopped by central brake before approaching the station (1.0421.6.03)

Operation 1.0421.6.03

- Send slot moves to the right to clear the way for arriving carrier
- Approaching carrier activates sensor
- Central brake cuts off airflow and stops carrier
- Carrier falls into basket and send slot moves back into middle position

Operation 1.0422.6.03

- Internal motor valve is closed while carrier is approaching
- Approaching carrier activates sensor
- Send slot moves to the right and motor valve opens to release the carrier
- In stand-by the motor valve is half open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do110

Housing: ca. 378 mm (h) × 375 mm (w) × 252 mm (d)

Weight: ca. 13 kg (1.0422.6.03) / 12.5 kg (1.0421.6.03)

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode (1.0422.6.03 only)
- RFID reader for user to identify the sender
- Also available in Do132 (1.0421.7.03/1.0422.7.03)

Accessories

- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00

We reserve the right of changes!

1.0421.T.03 / 1.0422.T.03

Send- & Receive-End-Station H61G



Left: Station 1.0421.T.03 with keyboard H61G 1.1363.0.GG – Right: Station 1.0421.T.03 with keyboard H61G 1.1363.0.GG, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air (1.0422.T.03)
- Carriers are stopped by central brake before approaching the station (1.0421.T.03)

Operation 1.0421.T.03

- Send slot moves to the right to clear the way for arriving carrier
- Approaching carrier activates sensor
- Central brake cuts off airflow and stops carrier
- Carrier falls into basket and send slot moves back into middle position

Operation 1.0422.T.03

- Internal motor valve is closed while carrier is approaching
- Approaching carrier activates sensor
- Send slot moves to the right and motor valve opens to release the carrier
- In stand-by the motor valve is half open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 375 mm (h) × 500 mm (w) × 304 mm (d)

Weight: ca. 19 kg (1.0421.T.03) / 21.5 kg (1.0422.T.03)
ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode (1.0422.T.03 only)
- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00

We reserve the right of changes!

1.0422.V.02

End-Station H61F



Station 1.0421.V.02 with keyboard H61F 1.1363.0.DF
and carriers

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal motor valve is closed while carrier is approaching
- Send slot moves to the right and motor valve opens to release the carrier
- In stand-by the motor valve is half open
- Station prevents another carrier to be received whilst a carrier is sitting on the motor valve

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do200

Housing: ca. 403 mm (h) × 860 mm (w) × 312 mm (d)

Weight: ca. ?? kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00

We reserve the right of changes!

1.0451.6.02

Pass-Bottom-Loading-Station H61F



Station 1.0451.6.02 with keyboard 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.7.00 and carriers 1.9315.6.1A / 1.9224.6.1A

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can only sit at the top flange of the station.

Application

It can be chosen whether the send slot is on the left or on the right side. Default: on the right side

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do110

Housing: ca. 657 mm (h) × 407 mm (w) × 327 mm (d)

Weight: ca. 23.4 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to identify the sender
- Also available in Do132 (1.0451.7.02)

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00

We reserve the right of changes!

1.0451.T.02

Send- & Receive-Through-Station H61F



Left: Station 1.0451.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00 and carrier rack 1.9001.T.00 – Bottom right: Station 1.0451.T.02 with reception bend 1.0026.T.00 – Also shown: carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can only sit at the top flange of the station.

Application

It can be chosen whether the send slot is on the left or on the right side. Default: on the right side

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 776 mm (h) × 507 mm (w) × 365 mm (d)

Weight: ca. 33 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to identify the sender

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00

We reserve the right of changes!

1.0451.6.03

Pass-Bottom-Loading-Station H61G



Station 1.0451.6.03 with keyboard 1.1363.0.GG, reception basket 1.0743.0.00, carrier rack 1.9001.7.00 and carriers 1.9224.6.1A / 1.9315.6.1A

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can only sit at the top flange of the station.

Application

It can be chosen whether the send slot is on the left or on the right side. Default: on the right side

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do110

Housing: ca. 657 mm (h) × 407 mm (w) × 329 mm (d)

Weight: ca. 23.4 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to identify the sender
- Also available in Do132 (1.0451.7.03)

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00

We reserve the right of changes!

1.0451.T.03

Send- & Receive-Through-Station H61G



Station 1.0451.T.03 with keyboard H61G 1.1363.0.GG, carrier rack 1.9001.T.00, carriers 1.9350.T.1L and reception basket 1.0743.0.00 (left) as well as reception bend 1.0026.T.00 (right)

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can only sit at the top flange of the station.

Application

It can be chosen whether the send slot is on the left or on the right side. Default: on the right side

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 776 mm (h) × 507 mm (w) × 367 mm (d)

Weight: ca. 33 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to identify the sender

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00

We reserve the right of changes!

1.0452.6.02

End-Station H61F



Station 1.0452.6.02 with keyboard H61F 1.1363.0.DF, carrier rack 1.9001.7.00 and reception basket 1.0743.0.00 (left) as well as reception bend 1.0026.6.00 (right) – Also shown: carriers 1.9315.6.1A / 1.9224.6.1A

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal s-bend design ensures smooth operation
- Carrier stops on in-built column of air
- Received carrier activates sensor
- S-bend moves into receive position
- After release of carrier s-bend returns into stand-by position

Location

This station can sit at the end of a chain of stations.
 The blower sits at the top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do110 (1.0452.6.02)
Housing: ca. 657 mm × 407 mm × 327 mm
Weight: ca. 23.4 kg
 ESD protected

Optional

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0452.7.02)

Accessories

- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00

We reserve the right of changes!

1.0452.T.02

End-Station H61F



Station 1.0452.T.02 with keyboard of H61F 1.1363.0.DF, carrier rack 1.9001.T.00 and reception basket 1.0743.0.00 (left) as well as reception bend 1.0026.T.00 (right) – Also shown: carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal s-bend design ensures smooth operation
- Carrier stops on in-built column of air
- Received carrier activates sensor
- S-bend moves into receive position
- After release of carrier s-bend returns into stand-by position

Location

The station can sit at the end of a chain of stations. The blower sits at the top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do160
Housing: ca. 776 mm × 507 mm × 365 mm
Weight: ca. 33 kg
 ESD protected

Optional

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00

We reserve the right of changes!

1.0452.6.03

End-Station H61G



Station 1.0452.6.03 with keyboard H61G 1.1363.0.GG, carrier rack 1.9001.7.00 and reception basket 1.0743.0.00 (left) as well as reception bend 1.0026.6.00 (right) – Also shown: carriers 1.9315.6.1A / 1.9224.6.1A

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal s-bend design ensures smooth operation
- Carrier stops on in-built column of air
- Received carrier activates sensor
- S-bend moves into receive position
- After release of carrier s-bend returns into stand-by position

Location

This station can sit at the end of a chain of stations.
 The blower sits at the top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do110 (1.0452.6.03)
Housing: ca. 657 mm × 407 mm × 329 mm
Weight: ca. 23.4 kg
 ESD protected

Optional

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0452.7.03)

Accessories

- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00

We reserve the right of changes!

1.0452.T.03

End-Station H61G



Station 1.0452.T.03 with keyboard H61G 1.1363.0.GG, carrier rack 1.9001.T.00, carriers 1.9350.T.1L and reception basket 1.0743.0.00 (left) as well as reception bend 1.0026.T.00 (right)

Carrier departure

- Sending upwards
- Carrier is inserted at the bottom of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting
- Overload protection

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air

Operation

- Internal s-bend design ensures smooth operation
- Carrier stops on in-built column of air
- Received carrier activates sensor
- S-bend moves into receive position
- After release of carrier s-bend returns into stand-by position

Location

The station can sit at the end of a chain of stations. The blower sits at the top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do160
Housing: ca. 776 mm × 507 mm × 367 mm
Weight: ca. 33 kg
 ESD protected

Optional

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00

We reserve the right of changes!

1.0454.6.02

Double-Send-Station H61F



Station 1.0454.6.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.7.00 and carriers 1.9315.6.1A / 1.9224.6.1A

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold two carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Carrier reception

- Arrival of the carriers from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do110
Housing: ca. 657 mm (h) × 407 mm (w) × 327 mm (d)
Weight: 22 kg
 ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to identify the sender
- Also available for Do132 (1.0454.7.02)

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00

We reserve the right of changes!

1.0454.T.02

Double-Send- and Receive-Station H61F



Station 1.0454.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold two carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Carrier reception

- Arrival of the carrier from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do160
Housing: ca. 776 mm (h) × 507 mm (w) × 365 mm (d)
Weight: ca. 34 kg
 ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to identify the sender

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00

We reserve the right of changes!

1.0454.6.03

Double-Send-Station H61G



Station 1.0454.6.03 with keyboard H61G 1.1363.0.GG,
 carrier rack 1.9001.7.00 and reception basket 1.0743.0.00

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold two carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Carrier reception

- Arrival of the carriers from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do110
Housing: ca. 657 mm (h) × 407 mm (w) × 329 mm (d)
Weight: 22 kg
 ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to identify the sender
- Also available in Do132 (1.0454.7.03)

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00

We reserve the right of changes!

1.0454.T.03

Double-Send- and Receive-Station H61G



Station 1.0454.T.03 with keyboard H61G 1.1363.0.GG,
 reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold two carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Carrier reception

- Arrival of the carrier from top
- Carriers are stopped by central brake before approaching the station

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves into receive position
- Approaching carrier activates sensor
- Central brake stops airflow immediately
- After release of carrier s-bend returns into through position

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do160
Housing: ca. 776 mm (h) × 507 mm (w) × 367 mm (d)
Weight: ca. 34 kg
 ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to identify the sender

Accessories

- RFID reader for arriving carriers
- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00

We reserve the right of changes!

1.0455.6.02

Triple-Send-Station H61F



Station 1.0455.6.02 with keyboard H61F 1.1363.0.DF

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold three carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves over the carrier to be sent
- Carrier departs and activates a sensor to command s-bend into a intermediate position between send slots

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside.

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Housing: ca. 657 mm (h) × 407 mm (w) × 327 mm (d)

Weight: ca. 24.20 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to identify the sender
- Also available in Do132 (1.0455.7.02)

Accessories

- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.7.00

We reserve the right of changes!

1.0455.T.02

Triple-Send-Station H61F



Station 1.0455.T.02 with keyboard H61F 1.1363.0.DF, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold three carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves over the carrier to be sent
- Carrier departs and activates a sensor to command s-bend into a intermediate position between send slots

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca. 776 mm (h) × 507 mm (w) × 365 mm (d)

Weight: ca. 34 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to identify the sender

Accessories

- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.T.00

We reserve the right of changes!

1.0455.6.03

Triple-Send-Station H61G



Station 1.0455.6.03 with keyboard H61G 1.1363.0.GG

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold three carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves over the carrier to be sent
- Carrier departs and activates a sensor to command s-bend into a intermediate position between send slots

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside.

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Housing: ca. 657 mm (h) × 407 mm (w) × 329 mm (d)

Weight: ca. 24.20 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to identify the sender
- Also available in Do132 (1.0455.7.03)

Accessories

- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.7.00

We reserve the right of changes!

1.0455.T.03

Triple-Send-Station H61G



*Station 1.0455.T.03 with keyboard H61G 1.1363.0.GG,
carrier rack 1.9001.T.00 and carriers 1.9350.T.1L*

Carrier departure

- Sending upwards
- Carriers are inserted at the bottom of the station
- Can hold three carriers while waiting for departure
- Carriers visible while waiting
- Overload protection
- Each send slot can have a different destination address

Operation

- Internal s-bend design ensures smooth operation
- S-bend moves over the carrier to be sent
- Carrier departs and activates a sensor to command s-bend into a intermediate position between send slots

Location

This station has to be connected to a diverter.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca. 776 mm (h) × 507 mm (w) × 367 mm (d)

Weight: ca. 34 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to identify the sender

Accessories

- RFID reader for carriers waiting to be sent
- Carrier rack 1.9001.T.00

We reserve the right of changes!

1.0461.T.02

Front-Loading-Station H61F



Station 1.0461.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards or downwards
- Can hold one carrier while waiting for departure
- Carrier is inserted at the front of the station
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160 (1.0461.T.02)

Housing: ca. 800 mm (h) × 500 mm (w) × 500 mm (d)

Weight: ca. 43 kg

ESD protected

Location

This station can sit at the end of a chain of stations. The blower can sit at the top or bottom flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0461.7.02)

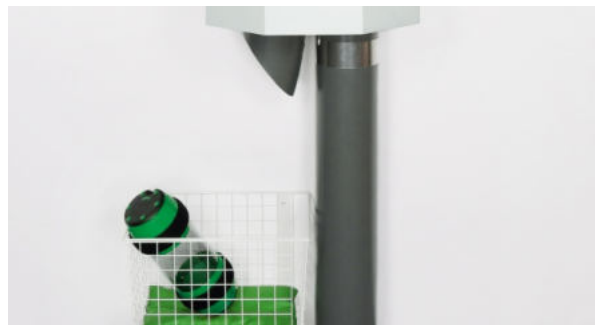
Accessories

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- Carrier rack 1.9001.7.00 / 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!

1.0461.T.03

Front-Loading-Station H61G



Station 1.0461.T.03 with touch screen H61G 1.1363.0.GG, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards or downwards
- Can hold one carrier while waiting for departure
- Carrier is inserted at the front of the station
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160 (1.0461.T.03)

Housing: ca. 800 mm (h) × 500 mm (w) × 502 mm (d)

Weight: ca. 43 kg

ESD protected

Location

This station can sit at the end of a chain of stations. The blower can sit at the top or bottom flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0461.7.03)

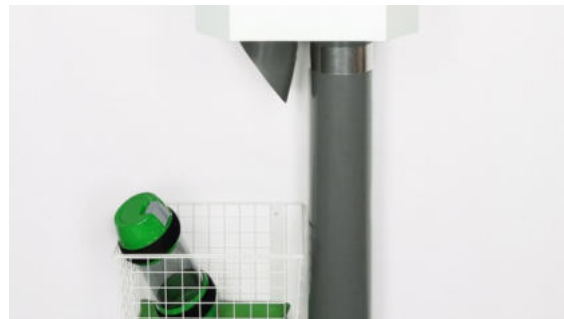
Accessories

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- Carrier rack 1.9001.7.00 / 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!

1.0462.T.02

Double-Front-Loading-Station H61F



Station 1.0462.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards or downwards
- Can hold two carriers while waiting for departure
- Carriers are inserted at the front of the station
- Carriers visible while waiting

Carrier reception

- Arrival of the carriers from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 800 mm (h) × 500 mm (w) × 500 mm (d)

Weight: ca. 43 kg

ESD protected

Location

This station can sit at the end of a chain of stations. The blower can sit at the top or bottom flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0462.7.02)

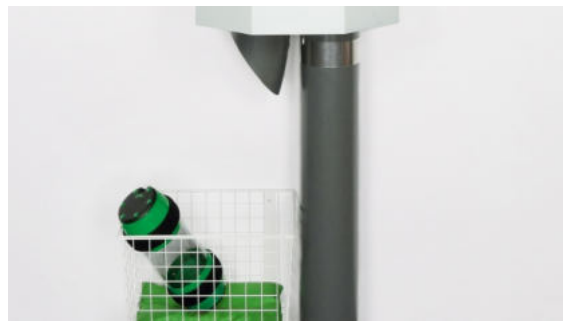
Accessories

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!

1.0462.T.03

Double-Front-Loading-Station H61G



Station 1.0462.T.02 with touch screen H61G 1.1363.0.GG, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards or downwards
- Can hold two carriers while waiting for departure
- Carriers are inserted at the front of the station
- Carriers visible while waiting

Carrier reception

- Arrival of the carriers from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Location

This station can sit at the end of a chain of stations. The blower can sit at the top or bottom flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 800 mm (h) × 500 mm (w) × 502 mm (d)

Weight: ca. 43 kg

ESD protected

Optional

- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0462.7.03)

Accessories

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- Carrier rack 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!

1.0465.T.02

Secure-Receive-Station H61F



Station 1.0465.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards or downwards
- Can hold one carrier while waiting for departure
- Carrier is inserted at the front of the station
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Secured reception

- Separate arrive slot for secured carriers
- While waiting for carrier release the station can send carriers, receive unsecured carriers and maintain through traffic

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Location

This station can sit at the end of a chain of stations. The blower can sit at the top or bottom flange of the station.

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside

Colour: Powder painted, white-grey RAL 7035

Tube: Do160

Housing: ca. 800 mm (h) × 500 mm (w) × 500 mm (d)

Weight: ca. 43 kg

ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0465.7.02)

Accessories

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- Carrier rack 1.9001.7.00 / 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!

1.0465.T.03

Secure-Receive-Station H61G



Station 1.0465.T.03 with keyboard H61G 1.1363.0.GG, carrier rack 1.9001.T.00, reception basket 1.0743.0.00 and carriers 1.9350.T.1L

Carrier departure

- Sending upwards or downwards
- Can hold one carrier while waiting for departure
- Carrier is inserted at the front of the station
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Secured reception

- Separate arrive slot for secured carriers
- While waiting for carrier release the station can send carriers, receive unsecured carriers and maintain through traffic

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Location

This station can sit at the end of a chain of stations. The blower can sit at the top or bottom flange of the station.

Technical properties

Material: Sheet-steel moulded case with PVC and ABS parts inside
Colour: Powder painted, white-grey RAL 7035
Tube: Do160
Housing: ca. 800 mm (h) × 500 mm (w) × 502 mm (d)
Weight: ca. 43 kg
 ESD protected

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0465.7.03)

Accessories

- RFID reader for carriers waiting for departure
- RFID reader for arrived carriers
- Carrier rack 1.9001.7.00 / 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

1.0472.6.02

Top Load Send- and Receive-Station H61F



Station 1.0472.6.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.7.00 and carriers 1.9224.6.1A / 1.9315.6.1A

Carrier departure

- Carrier is inserted at the top side of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Housing: ca. 650 mm (h) × 400 mm (w) × 337 mm (d)

Weight: ca. 26.2 kg

ESD protected

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can sit at the bottom or top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for carriers waiting to be sent
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender

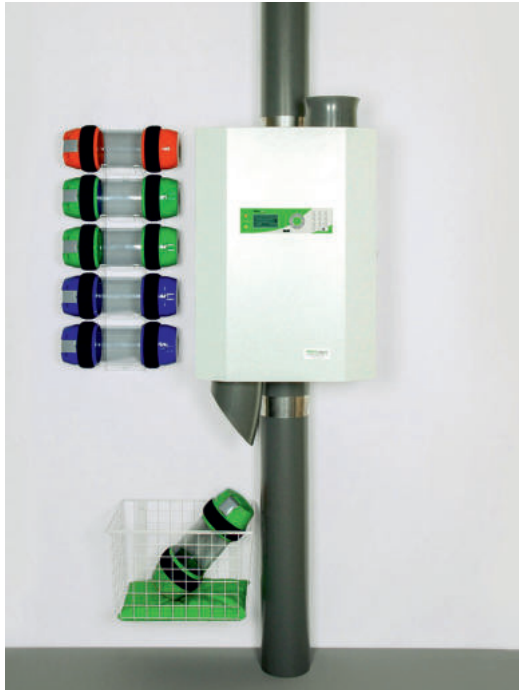
Accessories

- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.6.00
- Kit end bypass blower top 1.2615.6.00

We reserve the right of changes!

1.0472.T.02

Top Load Send- and Receive-Station H61F



Station 1.0472.T.02 with keyboard H61F 1.1363.0.DF, reception basket 1.0743.0.00, carrier rack 1.9001.T.00 and carriers 1.9350.T.1L

Carrier departure

- Carrier is inserted at the top side of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca. 736 mm (h) × 534 mm (w) × 445 mm (d)

Weight: ca. 42.5 kg

ESD protected

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can sit at the bottom or top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.DF

Optional

- RFID reader for arrived carriers
- RFID reader for carriers waiting to be sent
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0472.7.02)

Accessories

- Carrier rack 1.9001.7.00 / 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!

1.0472.6.03

Top Load Send- and Receive-Station H61G



Station 1.0472.6.03 with keyboard H61G 1.1363.0.GG

Carrier departure

- Carrier is inserted at the top side of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Housing: ca. 650 mm (h) × 400 mm (w) × 339 mm (d)

Weight: ca. 26.2 kg

ESD protected

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can sit at the bottom or top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for arrived carriers
- RFID reader for carriers waiting to be sent
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender

Accessories

- Carrier rack 1.9001.7.00
- Reception basket with damping cushion 1.0743.0.00
- Reception bend 1.0026.6.00
- Reception ramp 1.0028.6.00
- Reception conveyor belt 1.0027.6.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.6.00
- Kit end bypass blower top 1.2615.6.00

We reserve the right of changes!

1.0472.T.03

Top Load Send- and Receive-Station H61G



Station 1.0472.T.03 with keyboard H61G 1.1363.0.GG, carrier rack 1.9001.T.00, reception basket 1.0743.0.00 and carriers 1.9350.T.1L

Carrier departure

- Carrier is inserted at the top side of the station
- Can hold one carrier while waiting for departure
- Carrier visible while waiting

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air
- Internal two wall bypass turn unit ensures a quiet and reliable operation

Operation

- The bypass unit is turned into receive position
- Carrier arrives into bypass unit and is stopped by column of air
- Bypass unit turns to release position

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do160

Housing: ca. 736 mm (h) × 534 mm (w) × 447 mm (d)

Weight: ca. 42.5 kg

ESD protected

Location

This through-station can sit in the middle of a chain of stations or at the end. The blower can sit at the bottom or top flange of the station.

Delivery scope

- Mechanical station only without control unit
- Designed to be combined with control unit 1.1363.0.GG

Optional

- RFID reader for arrived carriers
- RFID reader for carriers waiting to be sent
- RFID reader for user to release carriers in secure reception mode
- RFID reader for user to identify the sender
- Also available in Do132 (1.0472.7.03)

Accessories

- Carrier rack 1.9001.7.00 / 1.9001.T.00
- Reception basket with damping cushion 1.0743.0.00 / 1.0746.T.00
- Reception bend 1.0026.T.00
- Ramp-full light barrier 1.0026.0.02
- Reception ramp 1.0028.T.00
- Reception conveyor belt 1.0027.T.00 + 1.0750.V.00
- Kit end cover blower bottom 1.0949.T.00
- Kit end bypass blower top 1.2615.T.00

We reserve the right of changes!



11 ACCESSORIES FOR THROUGH STATIONS

SYSTEM H61

Kit End Cover for Blower Bottom	1.0949.6.00; 1.0949.7.00; 1.0949.Z.00; 1.0949.V.00	73
Kit End Bypass for 1.0461./1.0472 Blower Top	1.2615.6.00; 1.2615.7.00; 1.2615.T.00	74

1.0949.6.00 / 1.0949.7.00 / 1.0949.T.00 / 1.0949.V.00

Kit End Cover for 1.0461/1.0472 Blower Bottom



For

- Closing the conveyor tube at the end of the air cushion brake

Installation

- To be glued at the tube end
- Then a set of holes has to be drilled into the tube as an air exhaust

Material: PVC

Colour: Dark grey

Dimensions:

Item No.	Do [mm]
1.0949.6.00	110
1.0949.7.00	132
1.0949.T.00	160
1.0949.V.00	200

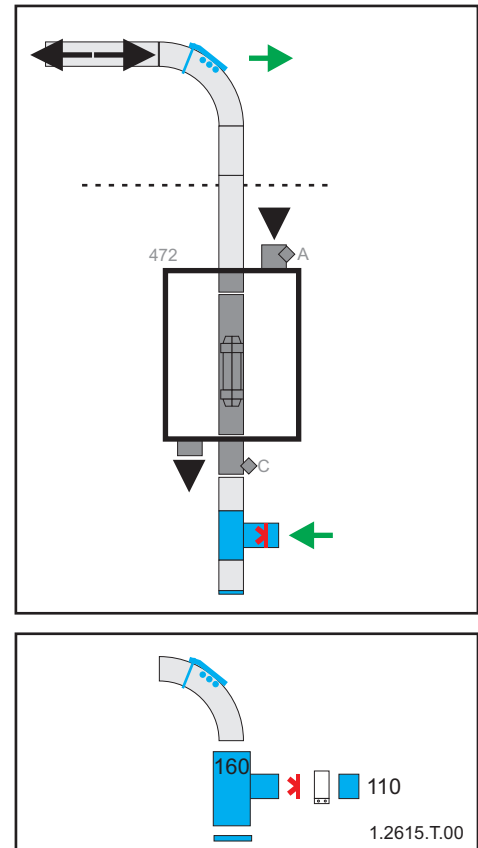
Delivery scope

- End cover

We reserve the right of changes!

1.2615.6.00 / 1.2615.7.00 / 1.2615.T.00

Kit End Bypass for 1.0461/1.0472 Blower Top



For

- There are through stations which can be approached from bottom side or from top side
- If the station is approached from top side the carrier will pass through the station. Then it will stop and will be sucked into the receive port of the station.
- For stopping the carrier under the station a bypass is needed.
- The 1.2615.T.00 is the bypass which has to be added to the station.

Installation

- There are two components.
- The upper non return valve sits on the bend over the station.
- A set of holes has to be drilled into the tube under the upper non return valve as an air exhaust.
- The lower non return valve sits under the station together with the T-Piece and the end cover.

Material: PVC, rubber, ABS

Colour: Dark grey

Delivery scope

- T-Piece
- End cover
- non return valve (blue)
- non return valve (white rubber)
- device sleeve

Options:

- Dimensions:

Item No.	Do [mm]
1.2615.6.00	110
1.2615.7.00	132
1.2615.T.00	160
1.2615.V.00	200

We reserve the right of changes!



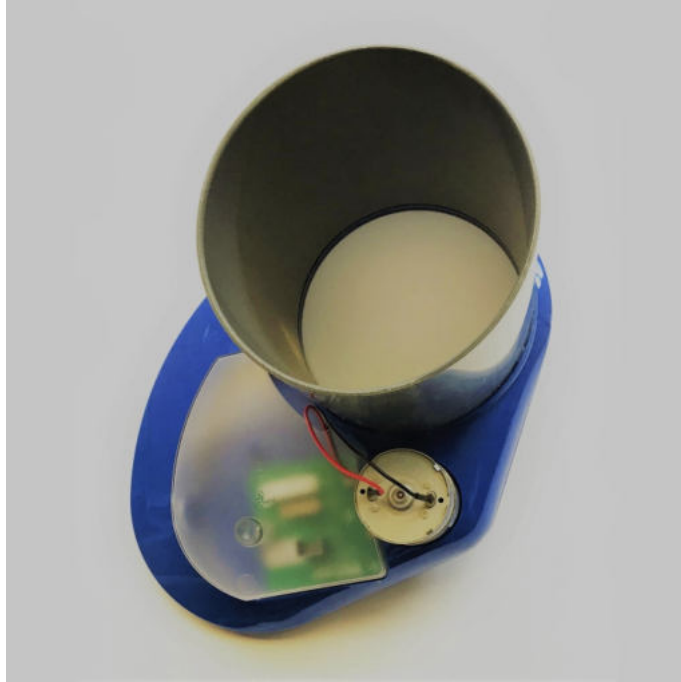
12 SIMPLE STATIONS

SYSTEM H61

Station H61 – Motor Valve H61 E/F	1.0117.2.02; 1.0117.4.02; 1.0117.6.02	76
Cash Sending Station	1.0117.6.0F	77
Sleeve Station H21	1.0124.6.T0	78
Sleeve Station H61F for up to 3kg Carriers	1.0124.6.UT	79
Sleeve Station Downwards	1.0127.6.00	80

1.0117.2.02 / 1.0117.4.02 / 1.0117.6.02

Station H61 – Motor Valve H61E/H61F



1.0117.6.02 Motor valve

For

- Spare part for 422 station
- Spare part for revolver FIFO

Operation

- Can close the airflow through the tube

Material: PVC

Colour: Dark grey, blue

Delivery scope

- Motor valve including adapter 1.1463.0.75

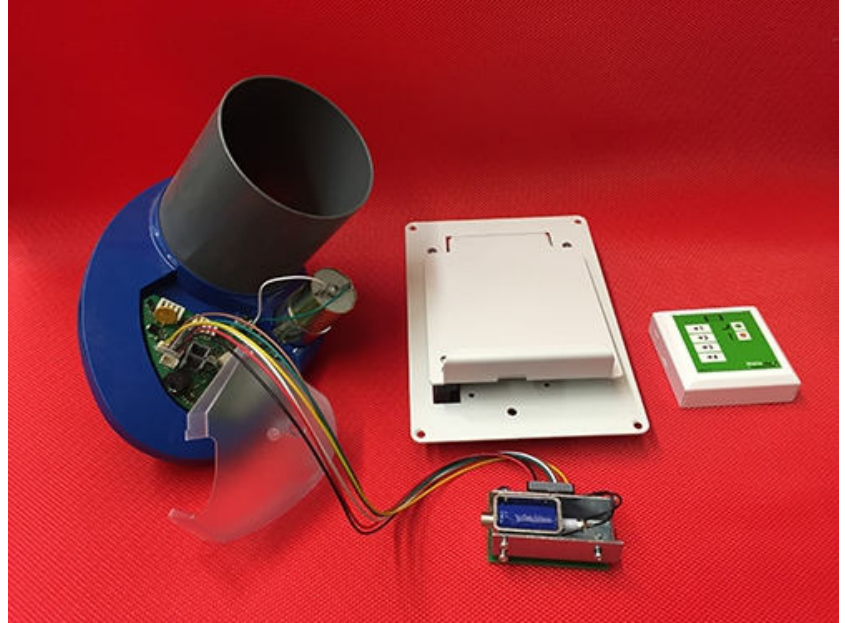
We reserve the right of changes!

1.0117.6.0F

Cash Sending Station



1.0117.6.0F Cash Sending Station



Cash Sending Station, Send Flap Box and External Keyboard

Application

- Very compact station for sending carriers

Operation

- Insert carrier into station
- Station will activate send contact
- After system is available carrier will depart

Installation

- Can be installed under the checkout furniture or at a pillar

Characteristics

- Air-tight valve
- Can handle carriers up to 5 kg
- Servo motor control to limit the motor power and avoid damages on carriers or user
- Has a carrier sensor under the valve to indicate that the sending process is complete
- Has a carrier sensor over the valve for automatic dispatch
- Can be equipped with external keyboard to choose one of four destinations and show system states (busy and error)
- Can be equipped with a send flap to close the hole in the table and avoid obstacles to fall into the tube
- The send flap can be equipped with a lock unit which will lock the flap after a carrier is loaded and avoid to take out the carrier while waiting for departure

Material: PVC, ABS

Colour: Dark grey, blue

Dimensions 1.0117.6.0F

Tube: Do110

Housing: Height ca. 210 mm

Weight: 1.2 kg

Delivery scope

- Blue valve including motor, controller card and connector set
- Additional items that have to be ordered: carrier sensor 1.1606.V.0D

Accessories

- External keyboard to choose between up to four destinations (1.1363.0.UF)
- Four pin cable between keyboard and control card – Choice from different cable lengths:
0.6 m (7.2554.0.06), 1.2 m (7.2554.0.12),
2.5 m (7.2254.0.25), 5.0 m (7.2254.0.50),
7.5 m (7.2254.0.75)
- Send flap box (1.0131.6.01)
- Lock for send flap (1.0131.0.70)

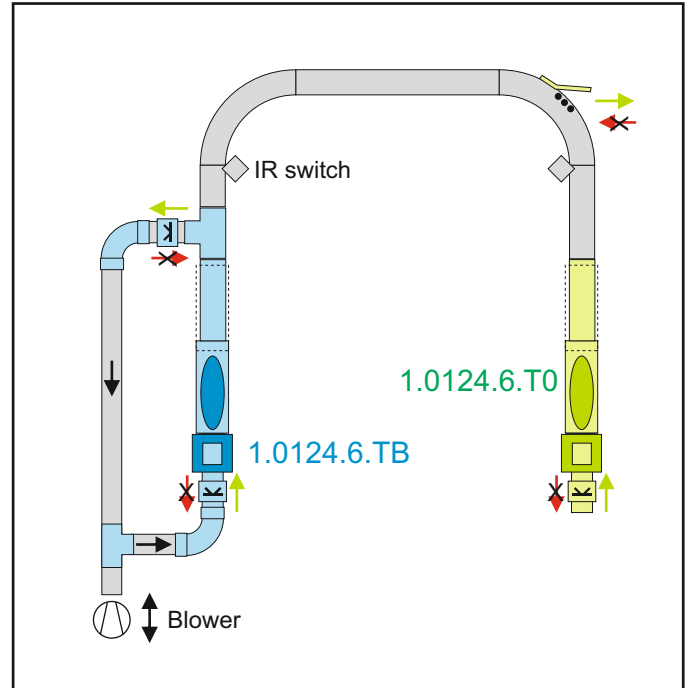
We reserve the right of changes!

1.0124.6.T0 / 1.0124.6.TB

Sleeve Station H21



1.0124.6.T0 with carrier 1.9224.6.0A



Left: 1.0124.6.TB – Right: 1.0124.6.T0

Carrier departure

- Sending upwards
- Carrier is inserted at the front of the station
- Can hold one carrier while waiting for departure
- Carrier is visible while waiting

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air (1.0124.6.TB)
- Carriers can have up to 3 kg weight

Operation

Send:

- Push sleeve tube to the top
- Insert carrier
- Close sleeve tube
- Push button at the front side of station

Reception:

- Carrier arrives from the top
- Carrier stops on in-built column of air
- Carrier can be taken out by opening the sleeve tube

Location

The .T0 station can only sit at the remote side.

The .TB can sit at the remote and blower side.

A bypass can be installed at blower side and remote side.

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Size: ca. 885 mm (h) × 143 mm (w) × 180 mm (d)

Weight: ca. 3.2 kg (1.0124.6.T0) / 3.3 kg (1.0124.6.TB)
 ESD protected

Delivery scope

- Mechanical station
- Station control unit H21

Accessories

- Carrier rack 1.9001.7.00
- Installation of a bypass (1.0121.6.90) parallel to the slider station 1.0124.6.T0. With this bypass more than one carrier can arrive and the reception is soft.

We reserve the right of changes!

1.0124.6.UT

Sleeve Station H61F for up to 3 kg Carriers



Station 1.0124.6.UT with carrier rack 1.9001.7.00,
 four carriers 1.9224.6.1A and two carriers 1.9315.6.1A

Carrier departure

- Sending upwards
- Carrier is inserted at the front of the station
- Can hold one carrier while waiting for departure
- Carrier is visible while waiting

Carrier reception

- Arrival of the carrier from top
- Carriers brake on an in-built column of air
- Carriers can have up to 3 kg weight

Operation

Send:

- Push sleeve tube to the top
- Insert carrier
- Close sleeve tube
- Push button at the front side of station

Reception:

- Carrier arrives from the top
- Carrier stops on in-built column of air
- Carrier can be taken out by opening the sleeve tube

Location

- Station has to be connected to a diverter
- Station can be mounted to a wall, a mast or just stand on a checkout table

Technical properties

Material: Sheet-steel case with PVC and ABS parts inside

Colour: Powder coated, white-grey RAL 7035

Tube: Do110

Size: ca. 885 mm (h) × 143 mm (w) × 180 mm (d)

Weight: ca. 3.2 kg
 ESD protected

Delivery scope

- Station 1.0124.6.UT (includes control unit K1 and a keyboard with two or four destination buttons)

Optional

- When ordering it has to be specified whether two or four buttons are needed

Accessories

- Carrier rack 1.9001.7.00

We reserve the right of changes!

1.0127.6.00

Sleeve Station Downwards



Station 1.0127.6.00 with carrier rack 1.9001.7.00
and carriers 1.9224.6.1A / 1.9315.6.1A

Carrier departure

- Sending downwards
- Carrier is inserted at the front of the station
- The station can be used for short and long carriers

Carrier reception

- Arrival of the carrier from bottom
- Carriers brake on an in-built column of air

Operation

Send:

- Push sleeve tube to the top
- Insert carrier
- Close sleeve tube
- Pull lever at the front side of station
- Carrier falls into tube and activates airflow

Reception:

- Carrier arrives from the bottom
- Carrier passes lever unit
- Carrier stops on in-built column of air
- Carrier falls on lever unit
- Open sleeve tube to take out carrier

Location

The station can sit at the blower side and the remote side of a point-to-point system.

Technical properties

Material: PVC

Colour: grey

Tube: Do110

Size: length ca. 850 mm

Weight: ca. 2.2 kg

Delivery scope

- Mechanical station only without control unit
- Station panel 1.1221.0.0D has to be ordered separately

Optional

- Also available in Do63 (1.0127.2.00)

Accessories

- Carrier rack 1.9001.7.00

We reserve the right of changes!



13 BAG STATIONS

SYSTEM H61

Station U21/H61E/H61F for Carriers and Bags

1.0231.6.U2; 1.0231.6.UE; 1.0231.6.UF

82

1.0231.6.U2 / 1.0231.6.UE / 1.0231.6.UF

Station U21 / H61E / H61F for Carriers and Bags



Station 1.0231.6.UF

Carrier departure

- Sending upwards
- Carrier/bag is inserted at bottom side
- Can hold one carrier/bag while waiting for departure
- Carrier/bag visible while waiting
- Due to the electronical locked loading flap, it is impossible to remove the carrier/bag while waiting for dispatch

Operation

- User opens flap and inserts carrier/bag
- Users closes flap
- Station detects carrier/bag and locks the flap
- User chooses a destination on the keyboard / if only one destination is available system starts automatically
- Carrier/bag waits for departure
- When the CC starts the departure, the station will open the motor valve opens
- The airflow will take the carrier/bag upwards
- When the carrier/bag passes the sensor over the station, the sending process is complete

Location

The station can be located at a diverter or a Y tube.

Technical properties

Material: Sheet-steel moulded case, plastic covered
Colour: Powder coated, white-grey RAL 7035
Tube: Do110
Housing: ca. 328 mm (h) × 228 mm (w) × 222 mm (d)
Weight: ca. 5.95 kg (1.0231.6.02)
 ESD protected

Delivery scope

- Station 1.0231.6.U2: includes two destination buttons the 25-pin-cable with D-Sub 25 connector and relay-card, the station U21 station controller is not included
- Station 1.0231.6.UE: includes control unit EST and a keyboard with two destination buttons
- Station 1.0231.6.UF: includes control unit K1 and a keyboard with two or four destination buttons

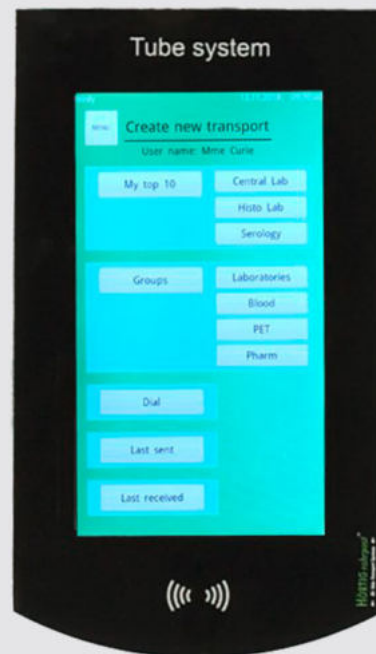
Optional

- RFID reader for carriers waiting to be sent
- RFID reader for user to identify the sender
- When ordering it has to be specified whether two or four buttons are needed

Accessories

- Carrier rack 1.9001.7.00

We reserve the right of changes!



14 STATION CONTROLS

SYSTEM H61

Set Station Control Unit H61E	1.1363.0.CE	84
Station Control Unit H61F	1.1263.0.DF	85
Waterproof Station Control Unit H61F	1.1263.1.DF	86
Set Station Control Unit H61F with Box	1.1363.0.DF	87
Keyboard for H61F	1.1363.0.UF	89
Set X2 Extension Card f STA	1.1563.0.51	90
Set X3 Extension Card for Station Controller H61F	1.1563.0.61	91
Station Control Unit	1.1263.0.GF	92
Set Station Control Unit with 10" Touch Screen	1.1363.0.GG	93

1.1363.0.CE

Set Station Control Unit H61E



Purpose

- Keyboard to be added into stations H61E
- Address a carrier to a destination station
- Show arrival information

Membrane keyboard

- With 12 buttons
- High quality surface foil for long term use

Three LEDs

- Show the state of the station
- Red: error
- Yellow: carrier is approaching
- Green: departure is booked in central controller

Installation

- Can be installed in every station type H61E

Technical properties

Material: metal case
Colour: grey RAL 7035
Protection class: IP20

Delivery scope

- Steel box
- Membrane keyboard and LCD
- Station control board EST
- Bag with necessary connectors to set cables

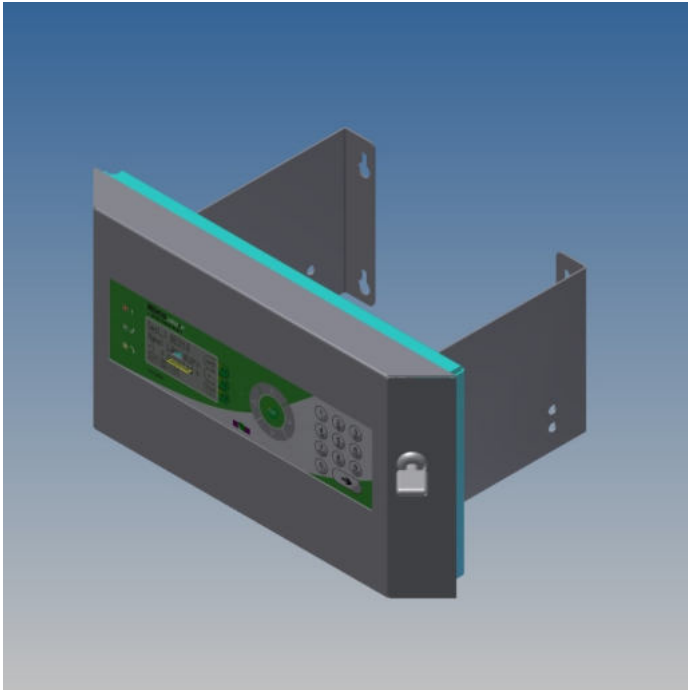
Accessories

- RFID reader for carriers and users

We reserve the right of changes!

1.1263.0.DF

Station Control Unit H61F



Purpose

- External keyboard for stations H61F
- Address a carrier to a destination station
- Show information

LCD display

- Resolution: 128 × 64 pixel
- The graphic unit is programmed to use UTF8 fonts
- The station can show the dialog and station names in Latin languages, Chinese, Thai, Vietnamese and Russian

Membrane keyboard

- With 19 buttons
- Has a high quality surface film for long term use

Function keys

- Depending on station's software configuration and condition
- The actual function is shown on the LCD

Three LEDs

- Red: error
- Yellow: carrier approaching
- Green: departure is booked in central controller

Installation

- For installation beside the station directly onto the wall or in front of a tube by using the wall distance brackets

Technical properties

Material: metal case

Colour: grey RAL 7035

Dimensions: ca. 232 mm (h) × 380 mm (w) × 60 mm (d)

Protection class: IP20

Delivery scope

- Controller with keyboard and display
- One set of wall brackets for tubes up to 160 mm

Accessories

- User swipe card reader to be installed behind the display

We reserve the right of changes!

1.1263.1.DF

Waterproof Station Control Unit H61F

Purpose

- Waterproof external keyboard for stations H61F
- Address a carrier to a destination station
- Show information

LCD display

- Resolution: 128 × 64 pixel
- The graphic unit is programmed to use UTF8 fonts
- The station can show the dialog and station names in Latin languages, Chinese, Thai, Vietnamese and Russian

Membrane keyboard

- With 19 buttons
- Has a high quality surface film for long term use

Function keys

- Depending on station's software configuration and condition
- The actual function is shown on the LCD

Three LEDs

- Red: error
- Yellow: carrier is approaching
- Green: departure is booked in central controller

Installation

- For o.p. installation beside the station
- Can be installed directly on the wall or in front of a tube by using the wall distance brackets

Technical properties

Material: metal case

Colour: grey RAL 7035

Dimensions: ca. 232 mm (h) × 380 mm (w) × 60 mm (d)

Protection class: IP67 waterproof

Delivery scope

- Controller with keyboard and display
- One set of wall brackets for tubes up to 160 mm

Accessories

- User swipe card unit that can be installed behind the display

We reserve the right of changes!

1.1363.0.DF

Set Station Control Unit H61F with Box



Control Unit 1.1363.0.DF



*Control Unit 1.1363.0.DF installed
on station 1.0452.T.02*

Purpose

- Keyboard for stations H61F
- Address a carrier to a destination station
- Show information

Sending features

- Integrated directory with all available destinations
- Speed dial function for most used destinations
- If the station has a carrier RFID reader: sending without any dialing by the user and ColourSend is possible
- The station can be adjusted to have only one destination address
- Sending options:
 - Transport speed
 - Priority

Reception features

- Arrival signal can be turned-off via the keyboard
- Requesting an empty carrier
- When using RT-Win 4: Information about the last received carrier is displayed (destination, time, user)

LCD display

- Resolution: 128 × 64 pixel
- The graphic unit is programmed to use UTF8 fonts
- The station can show the dialog and station names in Latin languages, Chinese, Thai, Vietnamese, and Russian
- Contrast and background brightness of the display are variable and are managed by a daylight sensor
- The display shows information about the last sending and the arrival

Membrane keyboard

- With 19 buttons
- Has a high quality surface file for long term use
- Big button for starting sending process

Function keys

- The F1...F3 buttons are used as function keys
- The actual function is shown on the LCD, e.g.
 - Deleting dispatch order
 - Going to menu

Three LEDs

- Show the state of the station
- Green LED indicates, that a carrier in the station is booked for departure and leaving soon
- Yellow LED announces the arrival of a carrier at this station
- Red LED shows an error of the device or that the carrier booked before cannot leave

Installation

- Can be installed on every station type H61F

Technical properties

Material: metal case

Colour: silver and green

Dimensions: 36 mm (h) × 290 mm (w) × 152 mm (d)

Protection class: IP20

Delivery scope

- Includes STA card

Optional

- Longer versions for old doors of H61E

Accessories

- Integrated user swipe card reader
- X2 card
- X3 card

We reserve the right of changes!

1.1363.0.UF

Keyboard for H61F



Purpose

- Space-saving external keyboard for stations H61F
- Address a carrier to a destination station
- Show arrival information

Membrane keyboard

- With four quick-dial buttons for four different destinations
- High quality surface foil for long term use

Three LEDs

- Show the state of the station
- Green LED indicates, that a carrier in the station is booked for departure and leaving soon
- Orange LED indicates that the system is busy
- Red LED shows an error of the device or that the carrier booked before cannot leave

Installation

- Installation beside every station of a system
- Connected with 4-wire cable to the RS485 interface of the station

Technical properties

Material: ABS

Colour: light-grey RAL7035

Dimensions: 90 mm (h) × 90 mm (w) × 30 mm (d)

Protection class: IP20

Delivery scope

- Membrane keyboard
- K1 controller card

Accessories

- 4-wire cable for RS485 connection to be ordered separately – available lengths: 5m (7.2554.0.50), 10m (7.2554.1.00), 15m (7.2554.1.50)

We reserve the right of changes!

1.1563.0.51

Set X2 Extension Card f STA



One unit of X2 Extension Card allows the connection of the following to a standard station PCB

- 9 Arrival Signals
- 3 Tube Switches
- 4 RFID Antennas

There can be up to 16 units of X2 Extension Cards connected to one station.

The card has to be bought to

- connect further 9 arrival signal lamps to the station and/or
- connect further 3 carrier sensors to the station and/or
- connect RFID send/receive antennas to the station

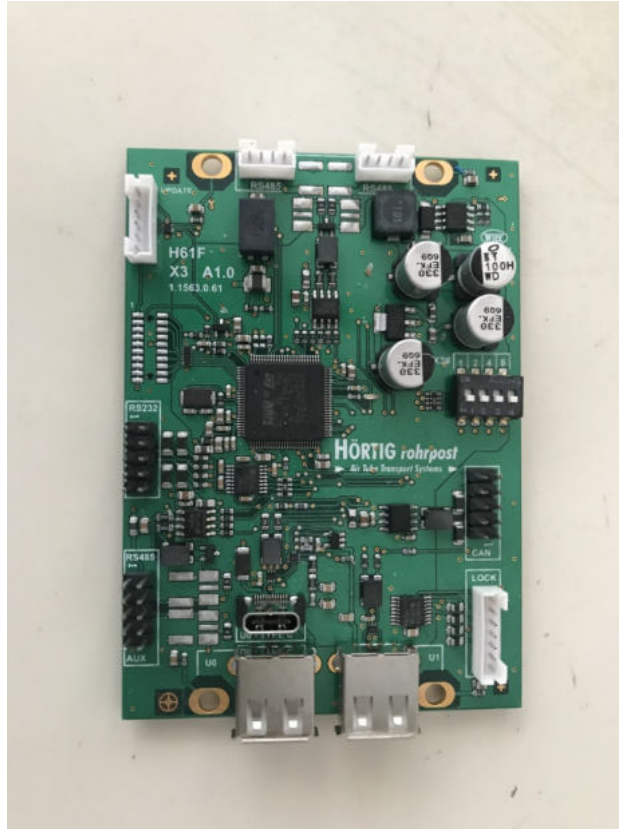
Delivery Scope

- Extension Card
- Connection cable
- 4 screws

We reserve the right of changes!

1.1563.0.61

Set X3 Extension Card for Station Controller H61F



One unit of X3 Extension Card allows the connection of several devices to a standard station PCB

- 2 USB devices:
 - One with USB A and C plug
 - One with USB A plug
- One serial device RS232c
- One serial device RS485
- One ISO CAN Bus device

Delivery Scope

- Extension card
- Connection cable
- 4 screws

We reserve the right of changes!

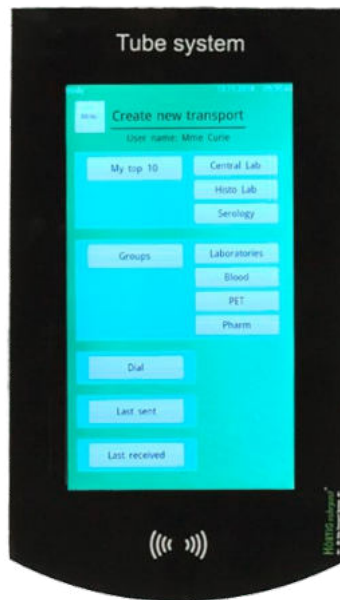
There can be up to 16 units of X3 Extension Cards connected to one station.

The card has to be bought to

- connect barcode readers with a USB interface
- connect RFID readers with a USB interface
- connect RFID readers with a serial interface
- connect stepper motors with CAN Bus interface

1.1263.0.GF

Station Control Unit



Purpose

- Display for stations H61G
- Address a carrier to a destination station
- Show information

Characteristics

- Resolution: 1024 × 600 pixel
- Big, easy to read screen display
- Fully configurable display
- High quality surface film for long term use
- Micro SD Card for fonts and videos

Sending Features

- Choose destinations from swipe list
- Choose from personal Top3 / Top10 destinations
- Choose from the station's Top3 / Top10 destinations
- Grouped destination lists
- Quick dial (e.g. last receive, last sent)
- Send and receive history
- Sending options:
 - Transport speed
 - Priority
- User instructions displayed on screen
- Integrated user swipe card reader (optional)

Individual configurations

- Fully configurable: e.g. layout, colours, naming and display of specific elements
 - Multi language, including Arabic, Chinese, Thai, etc. – any user language integrable
 - Many optional features: e.g. display of video, audio and messages
- These configurations can be uploaded via data cable

Installation

- Can be installed on every station type H61G
- For o.p. installation besides the station

Technical properties

Material: Tampered glass

Colour: Black

Dimensions: 310 mm (h) × 190 mm (w) × 20 mm (d)

Weight: 3 kg

Delivery scope

- Touch screen
- Fixation screws
- Connection cables

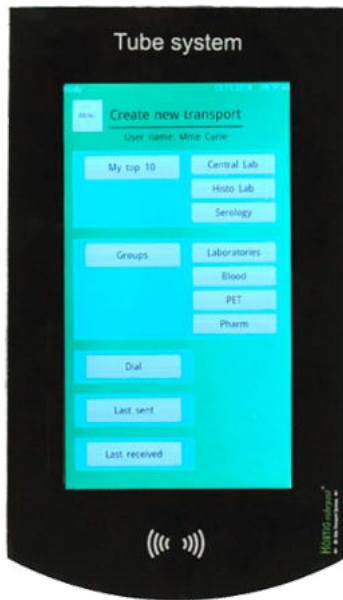
Accessories

- Integrated user swipe card reader

We reserve the right of changes!

1.1363.0.GG

Set Station Control Unit with 10" Touch Screen



Display 1.1363.0.GG



Display 1.1363.0.GG installed on station 1.0472.6

Purpose

- Display for stations H61G
- Address a carrier to a destination station
- Show information

Characteristics

- Resolution: 1024 × 600 pixel
- Big, easy to read screen display
- Fully configurable display
- High quality surface file for long term use
- Micro SD Card for fonts and videos

Sending Features

- Choose destinations from swipe list
- Choose from personal Top3 / Top10 destinations
- Choose from the station's Top3 / Top10 destinations
- Grouped destination lists
- Quick dial (e.g. last receive, last sent)
- Send and receive history
- Sending options:
 - Transport speed
 - Priority
- User instructions displayed on screen
- Integrated user swipe card reader (optional)

Individual configurations

- Fully configurable: e.g. layout, colours, naming and display of specific elements
 - Multi language, including Arabic, Chinese, Thai, etc. – any user language integrable
 - Many optional features: e.g. display of video, audio and messages
- These configurations can be uploaded via data cable

Installation

- Can be installed on every station type H61G

Technical properties

Material: Tempered glass

Colour: Black

Dimensions: 310 mm (h) × 190 mm (w) × 20 mm (d)

Weight: 3 kg

Delivery scope

- Touch screen
- Fixation screws
- Connection cables

Accessories

- Integrated user swipe card reader

We reserve the right of changes!



15 RECEPTION UNITS

SYSTEM H61

Carrier Rack 5-Way for Diameter to 132mm	1.9001.7.00	95
Carrier Rack 5-Way for Diameter 160mm	1.9001.T.00	96
Reception Basket with Damping Pad small	1.0743.0.00	97
Reception Basket with Damping Pad large	1.0746.T.00	98
Reception Conveyor Belt	1.0750.V.00	99
Connection Set for Second Conveyor Belt	1.0750.V.01	100
Optical Sensor for Reception Conveyor Belt	1.0750.V.02	101
Bracket 300mm	7.1165.3.10	102
Control Unit for Conveyor Belt H61F	1.0755.0.0F	103

1.9001.7.00

Carrier Rack



Carrier rack 1.9001.7.00



*Carrier rack 1.9001.7.00 with four carriers 1.9224.6.1A,
one carrier 1.9315.6.1A and station 1.0452.6.02*

Purpose

- Storing of up to five carriers beside the station

Technical properties

Material: steel wire

Colour: powder-coated, white-grey, RAL 7035

Tube: Do108 – Do132

Weight: 0.7 kg

Dimensions: 580 mm (h) × 145 mm (w) × 115 mm (d)

We reserve the right of changes!

1.9001.T.00

Carrier Receptacle 5-Way



Carrier receptacle 1.9001.T.00



Carrier receptacle 1.9001.T.00 with five carriers 1.9350.T.1L and station 1.0472.T.02

Purpose

- Storing of up to five carriers beside the station

Technical properties

Material: steel wire

Colour: powder-coated, light-grey, RAL 7035

Tube: Do160

Dimensions: 58 mm (h) × 14 mm (w) × 15 mm (d)

We reserve the right of changes!

1.0743.0.00

Reception Basket with Damping Pad



1.0743.0.00



Application example of 1.0743.0.00 next to station
1.0452.6.03

Application

- Smooth reception of arriving carriers
– the pad is filled with a special granulate to ensure that the carrier lands softly and doesn't jump out of the basket

Installation

- Is installed at the wall to ensure free access of the floor for cleaning

Damping pad

Colour: green

Material: polyester

(washable high-performance fabric)

Basket

Material: steel wire / steel plate

Colour: powder-coated, light-grey, RAL 7035

Dimensions: 450 mm (h) × 340 mm (w) × 300 mm (d)

Delivery scope

- Basket
- Damping pad

Optional

- Bigger-sized basket (1.0746.T.00)

Spare parts

- Additional damping pad (1.0710.0.21)

We reserve the right of changes!

1.0746.T.00

Reception Basket with Damping Pad



Application

- Smooth reception of arriving carriers
– the pad is filled with a special granulate to ensure that the carrier lands softly and doesn't jump out of the basket

Installation

- Is installed at the wall to ensure free access of the floor for cleaning

Damping pad

Colour: green

Material: polyester

(high-performance fabric that is washable)

Basket

Material: steel wire / steel plate

Colour: powder-coated, light grey, RAL 7035

Dimensions: 650 mm (h) × 450 mm (w) × 400 mm (d)

Delivery scope

- Basket
- Damping pad

Optional

- Smaller-sized basket (1.0743.0.00)

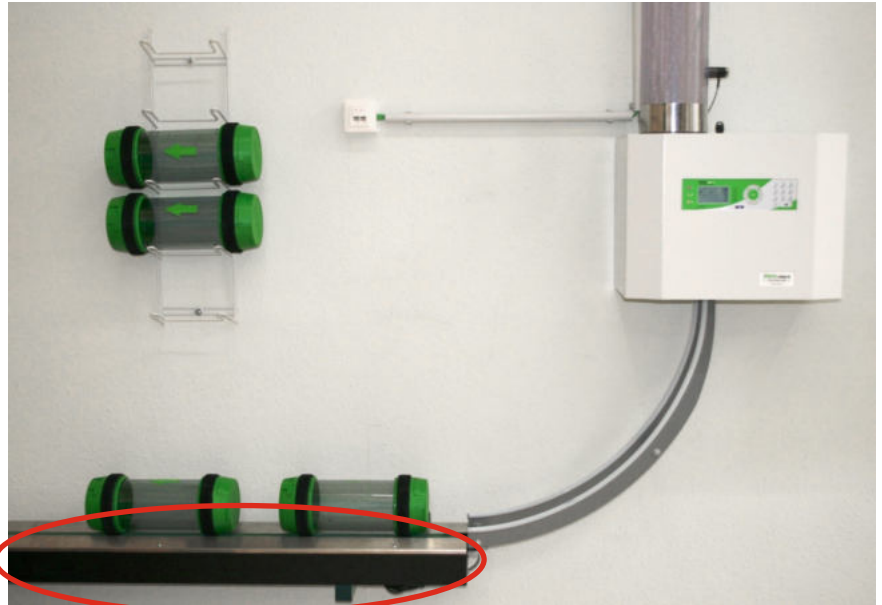
Spare parts

- Additional damping pad (1.0746.T.03)

We reserve the right of changes!

1.0750.V.00

Reception Conveyor Belt



Left: Three reception conveyor belts that are installed parallel to each other – Right: Reception conveyor belt installed to station 1.0222.T.02 with reception bow 1.0027.T.0A

For

- End-stations with open reception
- Very gentle reception of carriers – incoming carriers can't strike each other on the belt

Operation

- The carriers arrive via a bow onto the reception conveyor belt
- They sit on the top side of the belt
- The belt motor pulls the carriers
- If one carrier is removed, the belt will forward the remaining carriers on the belt to create space for newly arriving carriers
- Can hold up to 5 carriers

Installation

- The reception belt is mounted under the bow that connects the belt to the station

Technical properties

Material: Sheet-steel

Colour: Silver, black

Tube: DN 110/132/160

Belt length: 1.5 m with conveyor full switch

Weight: 17.4 kg

Delivery scope

- Conveyor belt including one sensor
- Items that have to be ordered additionally:
 - Connection bow between belt and station (1.0027.6.0A / 1.0027.7.0A / 1.0027.T.0A)

Accessories

- Arriving signal
- Ramp-full light barrier 1.0026.0.02
- Control unit for conveyor belt H61F (1.0755.0.0F)
- Belt sensor (1.0750.V.02)
- Connect two or more belts in a row to extend the conveyor belt with another belt and the belt connection set 1.0750.V.01

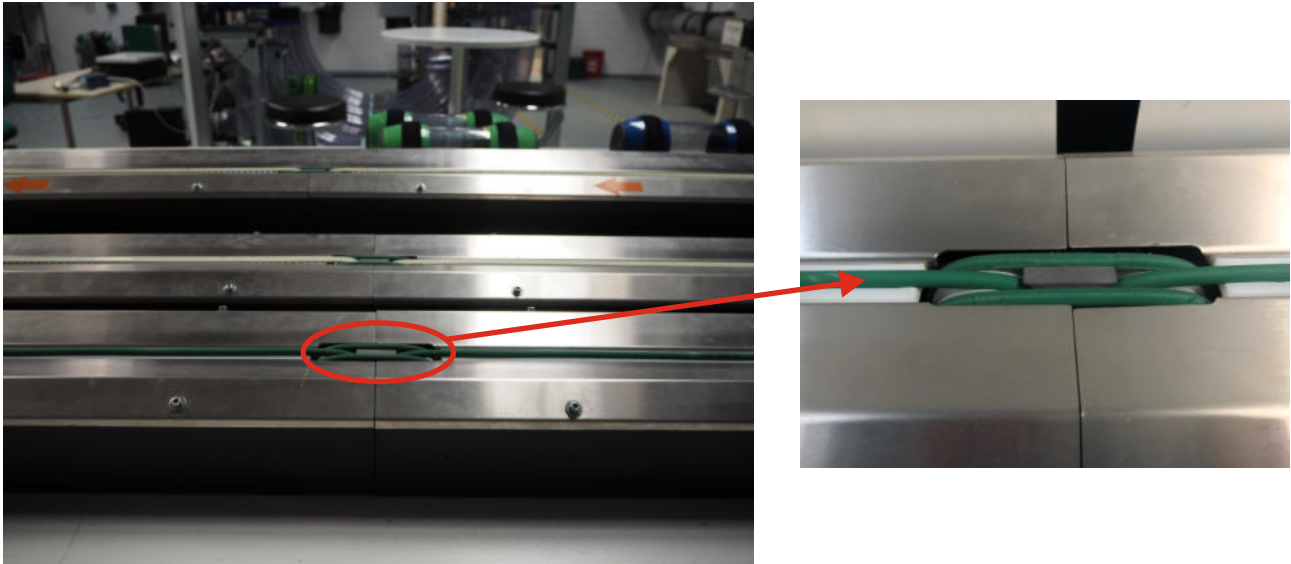


Scan QR with your smartphone for a video of a reception conveyor belt

We reserve the right of changes!

1.0750.V.01

Connection Set for Second Conveyor Belt



Connection Set installed between two reception conveyor belts (1.0750.V.00)

For

- Connecting two conveyor belts 1.0750.V.00

Operation

- The connection set consists of two short rubber belts which sit left and right of the belts that shall be connected
- The belts are driven by one of the belts and running loose on the other side
- The belts are needed to ensure that the carriers don't get stuck in the gap between the two conveyor belts
- There is an additional safety clip to cover the gap between the two conveyor belts

Material

- Rings: Rubber
- Safety Clip: PLA

Colour

- Green

Delivery scope

- Two rubber rings
- Safety clip

We reserve the right of changes!

1.0750.V.02

Optical Sensor for Reception Conveyor Belt



For

- Adding further contacts onto a conveyor belt

Operation

- Infrared reflection switch

Installation

- Fixed on the conveyor belt cover

Material

- Steel powder-paint

Colour

- Black

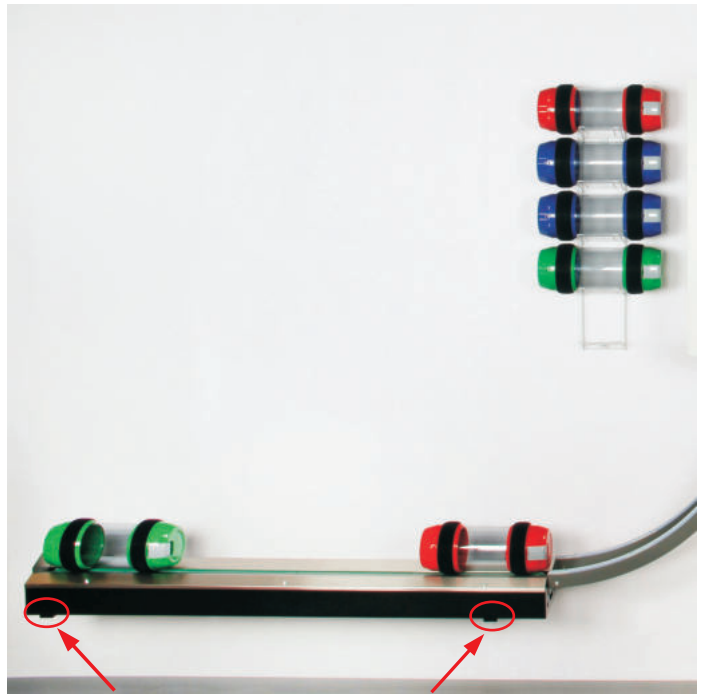
Delivery scope

- Sensor with housing and 2 meter cable

We reserve the right of changes!

7.1165.3.10

Bracket 300 mm



Left: One bracket for the installation of a reception bow – Right: Two brackets for the installation of a conveyor belt

Purpose:

Installation material for reception bow and reception conveyor belt

Material:

- Steel
- Coating with BIS UltraProtect 1000 technology

Dimensions:

- Length: 300 mm

Weight: 1.024 kg/pc.

Fire Protection:

Meets the requirements of MLAR/LAR/RbALei



We reserve the right of changes!

1.0755.0.0F

Control Unit for Conveyor Belt H61F



1.0755.0.0F

For

- Power supply to feed the belt motors in the case that more than two conveyor belts are installed at a station

Characteristics

- Bridge refreshes the bus signals
- Data uplink to previous bus segment is insulated
- Power-off follows previous power supply
- Bridge card is an addressable component for maintenance
- The internal power supply with 250 W can feed up to five conveyor belts

Integrated

- One CAN bus interfaces opt coupled
- One CAN bus interface without opto coupling
- One Power cable with SCHUKO plug
- Two fuses for power input

Input voltage

100 to 240 VAC

Output voltage

24 V

Housing

Protection class: IP20

Dimensions:

350 mm (w) × 320 mm (h) × 155 mm (d)

We reserve the right of changes!



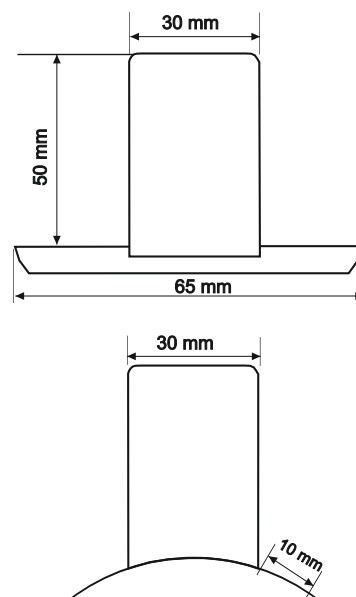
16 TUBE SWITCH

SYSTEM H61

Optical carrier sensor

1.1606.V.0D **105**

Optical Carrier Sensor



- Optical carrier sensor as infrared-light reflection switch

- Sensing distance: 55 mm
- Operation voltage: 12 – 36 VDC
- Power consumption: max. 4 mA
- Output switching current: max. 200 mA
- Output function: minus closer (NPN-transistor)
- Temperature range: -20 – +70°C
- Protection class: Ip67
- ESD protected
- Works in daylight
- Waterproof

- Direct connection to the station control unit which is placed in or beside the station or a diverter
- Glued onto the tube

- 10 m connecting cable

We reserve the right of changes!



17 RFID FOR CARRIERS

SYSTEM H61

RFID Antenna	1.0627.6.20; 1.0627.7.20; 1.0627.T.20; 1.0627.6.24; 1.0627.7.24; 1.0627.T.24	107
RFID Tag for Carrier	1.0628.0.01	108

1.0627.6.20 / 1.0627.7.20 / 1.0627.T.20 / 1.0627.6.24 / 1.0627.7.24 / 1.0627.T.24

RFID Antenna



1.0627.T.24



1.0627.6.20



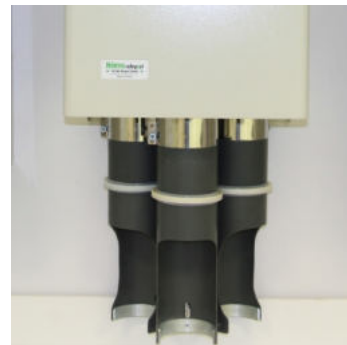
1.0627.6.24



1.0627.7.20



1.0627.7.24



3 Antenna rings installed at station 1.455.T.02

Characteristics

- Reads carriers with up to 10 cm distance
- Reads RW and RO tags
- Near field communication (NFC)
- Calibrated for 134 kHz RFID systems

For

- Identifying individual RFID chipped carriers in the tube system to ensure correct arrival

Installation

- Has to be installed at each sender tube or receiver tube at each station of the system
- To be connected to a H61E or H61F RFID reader card

Technical properties

Resonance frequency: 134.2 kHz

Reading distance: < 100 mm

Operation temperature range: 0 – 50 °C

Size: 10 mm × 10 mm ring

Delivery scope

- Antenna ring
- Connector for H61E or H61F
- RFID tags for carriers to be read have to be ordered additionally (1.0628.0.01)

Tube Size	H 61 E MAS-3 2 m cable	H 61 F RM 2 2 m cable
Do 110	1.0627.6.20	1.0627.6.24
Do 132	1.0627.7.20	1.0627.7.24
Do 160	1.0627.T.20	1.0627.T.24

We reserve the right of changes!

Cable

- Shielded twisted pair (STP), 2 wired with screen
- 2 m length and with connector
- Ready to plug in

1.0628.0.01

RFID Tag for Carrier



RFID tag installed in carrier

For

- Simple and reliable identification of carriers and their home station
- Full traceability of carriers:
 - Where is the carrier?
 - Who sent the carrier from which station?
 - Who received the carrier at which station?

Operation

- A transponder chip is installed in the carrier
- User puts the carrier into the station and pushes the button for sending back
- The system automatically reads the carrier and sends it back to the station where it comes from

Installation

- If carriers shall be read it has to be installed in each carrier head

Technical properties

Operation temperature range: -20 – +70 °C

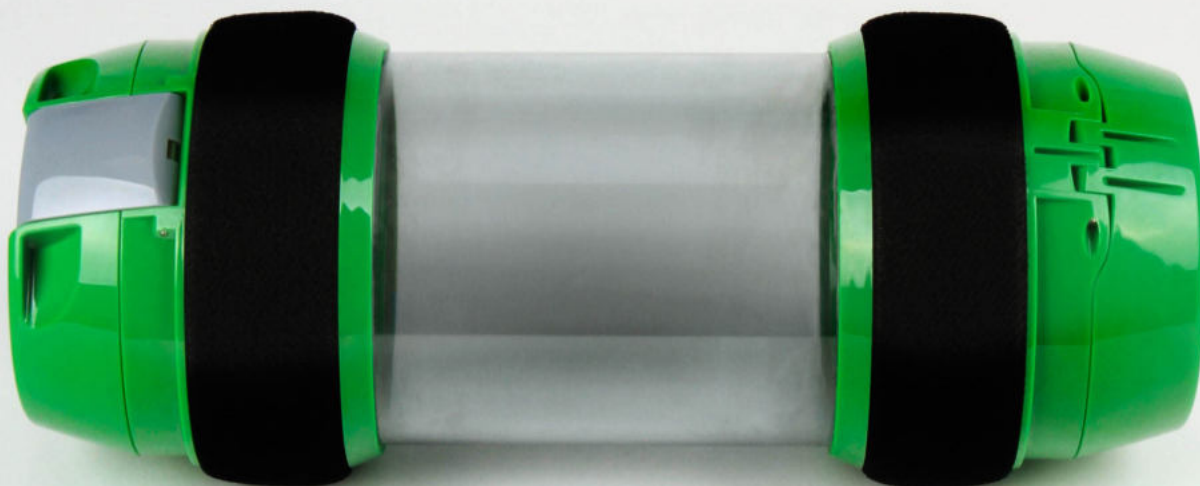
Length: 23 mm

Diameter: 3.5 mm

Delivery scope

- RFID tag for one carrier head
- RFID antennas that read the tag of the carriers have to be ordered additionally (1.0627)

We reserve the right of changes!



18 CARRIERS

SYSTEM H61

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1.9100.2.00

Carrier Stick Lid



Loading capacity: 43 mm × 100 mm
= 0.1 litre

Especially for: cash disposal

For:

- Tube dimension Do63
- Bend radius $r = 330$ mm or bigger

We reserve the right of changes!

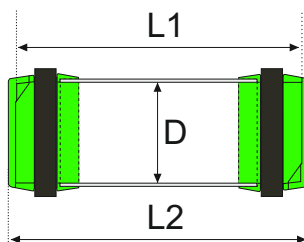
1.9190.6.1A

Carrier with Swing Lids



Dimensions:

Loading length (L1): 190 mm
 Total length (L2): 202 mm
 Diameter (D): 83 mm
 Volume: 1.0 litre



Material: plastic

Opening on both sides: yes

With:

- High-grade velcro rings
- Two swing engaging lids
- Spring assisted secure closing mechanism

For:

- Tube dimension Do110
- Bend radius $r = 330$

Optional:

- Felt rings
- Colours: green, red, blue
- Equipped with two RFID chips
- Other dimensions

All available variations in the table on the next page or in our carrier configurator via the QR-code below.



We reserve the right of changes!

Item No.	Do	Length	Bend		Rings	RFID	Availability
			Radius	Colour			
1.9190.6.1AHG0	110	190	330	Green	Velcro	None	In stock
1.9190.6.1AHG1	110	190	330	Green	Velcro	RW 1	Spares
1.9190.6.1AHG2	110	190	330	Green	Velcro	RW 2	Spares
1.9190.6.1AHG3	110	190	330	Green	Velcro	RO 1	In stock
1.9190.6.1AHG4	110	190	330	Green	Velcro	RO 2	In stock
1.9190.5.1AHG0	108	190	330	Green	Velcro	None	Upon request
1.9190.5.1AHG1	108	190	330	Green	Velcro	RW 1	Spares
1.9190.5.1AHG2	108	190	330	Green	Velcro	RW 2	Spares
1.9190.5.1AHG3	108	190	330	Green	Velcro	RO 1	Upon request
1.9190.5.1AHG4	108	190	330	Green	Velcro	RO 2	Upon request
1.9190.N.1AHG0	110T	190	330	Green	Velcro	None	In stock
1.9190.N.1AHG1	110T	190	330	Green	Velcro	RW 1	Spares
1.9190.N.1AHG2	110T	190	330	Green	Velcro	RW 2	Spares
1.9190.N.1AHG3	110T	190	330	Green	Velcro	RO 1	In stock
1.9190.N.1AHG4	110T	190	330	Green	Velcro	RO 2	In stock
1.9190.6.0AHG0	110	190	330	Green	Felt	None	Upon request
1.9190.6.0AHG1	110	190	330	Green	Felt	RW 1	Spares
1.9190.6.0AHG2	110	190	330	Green	Felt	RW 2	Spares
1.9190.6.0AHG3	110	190	330	Green	Felt	RO 1	Upon request
1.9190.6.0AHG4	110	190	330	Green	Felt	RO 2	Upon request
1.9190.5.0AHG0	108	190	330	Green	Felt	None	Upon request
1.9190.5.0AHG1	108	190	330	Green	Felt	RW 1	Spares
1.9190.5.0AHG2	108	190	330	Green	Felt	RW 2	Spares
1.9190.5.0AHG3	108	190	330	Green	Felt	RO 1	Upon request
1.9190.5.0AHG4	108	190	330	Green	Felt	RO 2	Upon request
1.9190.N.0AHG0	110T	190	330	Green	Felt	None	Upon request
1.9190.N.0AHG1	110T	190	330	Green	Felt	RW 1	Spares
1.9190.N.0AHG2	110T	190	330	Green	Felt	RW 2	Spares
1.9190.N.0AHG3	110T	190	330	Green	Felt	RO 1	Upon request
1.9190.N.0AHG4	110T	190	330	Green	Felt	RO 2	Upon request
1.9190.6.0AHB0	110	190	330	Blue	Felt	None	Upon request
1.9190.6.0AHB1	110	190	330	Blue	Felt	RW 1	Spares
1.9190.6.0AHB2	110	190	330	Blue	Felt	RW 2	Spares
1.9190.6.0AHB3	110	190	330	Blue	Felt	RO 1	Upon request
1.9190.6.0AHB4	110	190	330	Blue	Felt	RO 2	Upon request
1.9190.5.0AHB0	108	190	330	Blue	Felt	None	Upon request
1.9190.5.0AHB1	108	190	330	Blue	Felt	RW 1	Spares
1.9190.5.0AHB2	108	190	330	Blue	Felt	RW 2	Spares
1.9190.5.0AHB3	108	190	330	Blue	Felt	RO 1	Upon request
1.9190.5.0AHB4	108	190	330	Blue	Felt	RO 2	Upon request
1.9190.N.0AHB0	110T	190	330	Blue	Felt	None	Upon request
1.9190.N.0AHB1	110T	190	330	Blue	Felt	RW 1	Spares
1.9190.N.0AHB2	110T	190	330	Blue	Felt	RW 2	Spares
1.9190.N.0AHB3	110T	190	330	Blue	Felt	RO 1	Upon request
1.9190.N.0AHB4	110T	190	330	Blue	Felt	RO 2	Upon request

Item No.	Do	Length	Bend		Rings	RFID	Availability
			Radius	Colour			
1.9190.6.0AHR0	110	190	330	Red	Felt	None	Upon request
1.9190.6.0AHR1	110	190	330	Red	Felt	RW 1	Spares
1.9190.6.0AHR2	110	190	330	Red	Felt	RW 2	Spares
1.9190.6.0AHR3	110	190	330	Red	Felt	RO 1	Upon request
1.9190.6.0AHR4	110	190	330	Red	Felt	RO 2	Upon request
1.9190.5.0AHR0	108	190	330	Red	Felt	None	Upon request
1.9190.5.0AHR1	108	190	330	Red	Felt	RW 1	Spares
1.9190.5.0AHR2	108	190	330	Red	Felt	RW 2	Spares
1.9190.5.0AHR3	108	190	330	Red	Felt	RO 1	Upon request
1.9190.5.0AHR4	108	190	330	Red	Felt	RO 2	Upon request
1.9190.N.0AHR0	110T	190	330	Red	Felt	None	Upon request
1.9190.N.0AHR1	110T	190	330	Red	Felt	RW 1	Spares
1.9190.N.0AHR2	110T	190	330	Red	Felt	RW 2	Spares
1.9190.N.0AHR3	110T	190	330	Red	Felt	RO 1	Upon request
1.9190.N.0AHR4	110T	190	330	Red	Felt	RO 2	Upon request
1.9190.6.1AHB0	110	190	330	Blue	Velcro	None	Available
1.9190.6.1AHB1	110	190	330	Blue	Velcro	RW 1	Spares
1.9190.6.1AHB2	110	190	330	Blue	Velcro	RW 2	Spares
1.9190.6.1AHB3	110	190	330	Blue	Velcro	RO 1	Available
1.9190.6.1AHB4	110	190	330	Blue	Velcro	RO 2	Available
1.9190.5.1AHB0	108	190	330	Blue	Velcro	None	Upon request
1.9190.5.1AHB1	108	190	330	Blue	Velcro	RW 1	Spares
1.9190.5.1AHB2	108	190	330	Blue	Velcro	RW 2	Spares
1.9190.5.1AHB3	108	190	330	Blue	Velcro	RO 1	Upon request
1.9190.5.1AHB4	108	190	330	Blue	Velcro	RO 2	Upon request
1.9190.N.1AHB0	108	190	330	Blue	Velcro	None	Upon request
1.9190.N.1AHB1	108	190	330	Blue	Velcro	RW 1	Spares
1.9190.N.1AHB2	108	190	330	Blue	Velcro	RW 2	Spares
1.9190.N.1AHB3	108	190	330	Blue	Velcro	RO 1	Upon request
1.9190.N.1AHB4	108	190	330	Blue	Velcro	RO 2	Upon request
1.9190.6.1AHR0	110	190	330	Red	Velcro	None	Available
1.9190.6.1AHR1	110	190	330	Red	Velcro	RW 1	Spares
1.9190.6.1AHR2	110	190	330	Red	Velcro	RW 2	Spares
1.9190.6.1AHR3	110	190	330	Red	Velcro	RO 1	Available
1.9190.6.1AHR4	110	190	330	Red	Velcro	RO 2	Available
1.9190.5.1AHR0	108	190	330	Red	Velcro	None	Upon request
1.9190.5.1AHR1	108	190	330	Red	Velcro	RW 1	Spares
1.9190.5.1AHR2	108	190	330	Red	Velcro	RW 2	Spares
1.9190.5.1AHR3	108	190	330	Red	Velcro	RO 1	Upon request
1.9190.5.1AHR4	108	190	330	Red	Velcro	RO 2	Upon request
1.9190.N.1AHR0	110T	190	330	Red	Velcro	None	Upon request
1.9190.N.1AHR1	110T	190	330	Red	Velcro	RW 1	Spares
1.9190.N.1AHR2	110T	190	330	Red	Velcro	RW 2	Spares
1.9190.N.1AHR3	110T	190	330	Red	Velcro	RO 1	Upon request
1.9190.N.1AHR4	110T	190	330	Red	Velcro	RO 2	Upon request

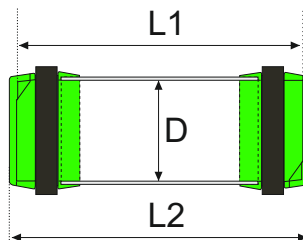
1.9224.6.1A

Carrier with Swing Lids



Dimensions:

Loading length (L1): 224 mm
Total length (L2): 236 mm
Diameter (D): 83 mm
Volume: 1.2 litre



Material: plastic, impact and break resistant

Opening on both sides: yes

With:

- High-grade velcro rings
- Two swing engaging lids
- Spring assisted secure closing mechanism

For:

- Tube dimension Do110
- Bend radius $r = 550$

Optional:

- Felt rings
- Colours: green, red, blue
- Equipped with two RFID chips
- Dimensions: Do108, Do110T

All available variations in the table on the next page or in our carrier configurator via the QR-code below.



We reserve the right of changes!

Item No.	Do	Length	Bend		Rings	RFID	Availability
			Radius	Colour			
1.9224.6.1AHG0	110	224	550	Green	Velcro	None	In stock
1.9224.6.1AHG1	110	224	550	Green	Velcro	RW 1	Spares
1.9224.6.1AHG2	110	224	550	Green	Velcro	RW 2	Spares
1.9224.6.1AHG3	110	224	550	Green	Velcro	RO 1	In stock
1.9224.6.1AHG4	110	224	550	Green	Velcro	RO 2	In stock
1.9224.5.1AHG0	108	224	550	Green	Velcro	None	Upon request
1.9224.5.1AHG1	108	224	550	Green	Velcro	RW 1	Spares
1.9224.5.1AHG2	108	224	550	Green	Velcro	RW 2	Spares
1.9224.5.1AHG3	108	224	550	Green	Velcro	RO 1	Upon request
1.9224.5.1AHG4	108	224	550	Green	Velcro	RO 2	Upon request
1.9224.N.1AHG0	110T	224	550	Green	Velcro	None	Upon request
1.9224.N.1AHG1	110T	224	550	Green	Velcro	RW 1	Spares
1.9224.N.1AHG2	110T	224	550	Green	Velcro	RW 2	Spares
1.9224.N.1AHG3	110T	224	550	Green	Velcro	RO 1	Upon request
1.9224.N.1AHG4	110T	224	550	Green	Velcro	RO 2	Upon request
1.9224.6.0AHG0	110	224	550	Green	Felt	None	Upon request
1.9224.6.0AHG1	110	224	550	Green	Felt	RW 1	Spares
1.9224.6.0AHG2	110	224	550	Green	Felt	RW 2	Spares
1.9224.6.0AHG3	110	224	550	Green	Felt	RO 1	Upon request
1.9224.6.0AHG4	110	224	550	Green	Felt	RO 2	Upon request
1.9224.5.0AHG0	108	224	550	Green	Felt	None	Upon request
1.9224.5.0AHG1	108	224	550	Green	Felt	RW 1	Spares
1.9224.5.0AHG2	108	224	550	Green	Felt	RW 2	Spares
1.9224.5.0AHG3	108	224	550	Green	Felt	RO 1	Upon request
1.9224.5.0AHG4	108	224	550	Green	Felt	RO 2	Upon request
1.9224.N.0AHG0	110T	224	550	Green	Felt	None	Upon request
1.9224.N.0AHG1	110T	224	550	Green	Felt	RW 1	Spares
1.9224.N.0AHG2	110T	224	550	Green	Felt	RW 2	Spares
1.9224.N.0AHG3	110T	224	550	Green	Felt	RO 1	Upon request
1.9224.N.0AHG4	110T	224	550	Green	Felt	RO 2	Upon request
1.9224.6.0AHB0	110	224	550	Blue	Felt	None	Upon request
1.9224.6.0AHB1	110	224	550	Blue	Felt	RW 1	Spares
1.9224.6.0AHB2	110	224	550	Blue	Felt	RW 2	Spares
1.9224.6.0AHB3	110	224	550	Blue	Felt	RO 1	Upon request
1.9224.6.0AHB4	110	224	550	Blue	Felt	RO 2	Upon request
1.9224.5.0AHB0	108	224	550	Blue	Felt	None	Upon request
1.9224.5.0AHB1	108	224	550	Blue	Felt	RW 1	Spares
1.9224.5.0AHB2	108	224	550	Blue	Felt	RW 2	Spares
1.9224.5.0AHB3	108	224	550	Blue	Felt	RO 1	Upon request
1.9224.5.0AHB4	108	224	550	Blue	Felt	RO 2	Upon request
1.9224.N.0AHB0	110T	224	550	Blue	Felt	None	Upon request
1.9224.N.0AHB1	110T	224	550	Blue	Felt	RW 1	Spares
1.9224.N.0AHB2	110T	224	550	Blue	Felt	RW 2	Spares
1.9224.N.0AHB3	110T	224	550	Blue	Felt	RO 1	Upon request
1.9224.N.0AHB4	110T	224	550	Blue	Felt	RO 2	Upon request

Item No.	Do	Length	Bend		Rings	RFID	Availability
			Radius	Colour			
1.9224.6.1AHB0	110	224	550	Blue	Velcro	None	Available
1.9224.6.1AHB1	110	224	550	Blue	Velcro	RW 1	Spares
1.9224.6.1AHB2	110	224	550	Blue	Velcro	RW 2	Spares
1.9224.6.1AHB3	110	224	550	Blue	Velcro	RO 1	Available
1.9224.6.1AHB4	110	224	550	Blue	Velcro	RO 2	Available
1.9224.5.1AHB0	108	224	550	Blue	Velcro	None	Upon request
1.9224.5.1AHB1	108	224	550	Blue	Velcro	RW 1	Spares
1.9224.5.1AHB2	108	224	550	Blue	Velcro	RW 2	Spares
1.9224.5.1AHB3	108	224	550	Blue	Velcro	RO 1	Upon request
1.9224.5.1AHB4	108	224	550	Blue	Velcro	RO 2	Upon request
1.9224.N.1AHB0	108	224	550	Blue	Velcro	None	Upon request
1.9224.N.1AHB1	108	224	550	Blue	Velcro	RW 1	Spares
1.9224.N.1AHB2	108	224	550	Blue	Velcro	RW 2	Spares
1.9224.N.1AHB3	108	224	550	Blue	Velcro	RO 1	Upon request
1.9224.N.1AHB4	108	224	550	Blue	Velcro	RO 2	Upon request
1.9224.6.0AHR0	110	224	550	Red	Felt	None	Upon request
1.9224.6.0AHR1	110	224	550	Red	Felt	RW 1	Spares
1.9224.6.0AHR2	110	224	550	Red	Felt	RW 2	Spares
1.9224.6.0AHR3	110	224	550	Red	Felt	RO 1	Upon request
1.9224.6.0AHR4	110	224	550	Red	Felt	RO 2	Upon request
1.9224.5.0AHR0	108	224	550	Red	Felt	None	Upon request
1.9224.5.0AHR1	108	224	550	Red	Felt	RW 1	Spares
1.9224.5.0AHR2	108	224	550	Red	Felt	RW 2	Spares
1.9224.5.0AHR3	108	224	550	Red	Felt	RO 1	Upon request
1.9224.5.0AHR4	108	224	550	Red	Felt	RO 2	Upon request
1.9224.N.0AHR0	110T	224	550	Red	Felt	None	Upon request
1.9224.N.0AHR1	110T	224	550	Red	Felt	RW 1	Spares
1.9224.N.0AHR2	110T	224	550	Red	Felt	RW 2	Spares
1.9224.N.0AHR3	110T	224	550	Red	Felt	RO 1	Upon request
1.9224.N.0AHR4	110T	224	550	Red	Felt	RO 2	Upon request
1.9224.6.1AHR0	110	224	550	Red	Velcro	None	Available
1.9224.6.1AHR1	110	224	550	Red	Velcro	RW 1	Spares
1.9224.6.1AHR2	110	224	550	Red	Velcro	RW 2	Spares
1.9224.6.1AHR3	110	224	550	Red	Velcro	RO 1	Available
1.9224.6.1AHR4	110	224	550	Red	Velcro	RO 2	Available
1.9224.5.1AHR0	108	224	550	Red	Velcro	None	Upon request
1.9224.5.1AHR1	108	224	550	Red	Velcro	RW 1	Spares
1.9224.5.1AHR2	108	224	550	Red	Velcro	RW 2	Spares
1.9224.5.1AHR3	108	224	550	Red	Velcro	RO 1	Upon request
1.9224.5.1AHR4	108	224	550	Red	Velcro	RO 2	Upon request
1.9224.N.1AHR0	110T	224	550	Red	Velcro	None	Upon request
1.9224.N.1AHR1	110T	224	550	Red	Velcro	RW 1	Spares
1.9224.N.1AHR2	110T	224	550	Red	Velcro	RW 2	Spares
1.9224.N.1AHR3	110T	224	550	Red	Velcro	RO 1	Upon request
1.9224.N.1AHR4	110T	224	550	Red	Velcro	RO 2	Upon request

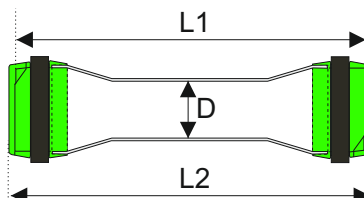
1.9315.6.1A

Carrier with Swing Lids



Dimensions:

Loading length (L1): 315 mm
Total length (L2): 327 mm
Diameter (D): 72 mm
Volume: 1.3 litre



Opening on both sides: yes

Material: plastic, impact and break resistant

With:

- High-grade velcro rings
- Two swing engaging lids
- Spring assisted secure closing mechanism

For:

- Tube dimensions Do110
- Bend radius $r = 650$ mm or bigger

Optional:

- Felt rings
- Colours: green, red, blue
- Equipped with two RFID chips
- Dimensions: Do108, Do110T

All available variations in the table on the next page or in our carrier configurator via the QR-code below.



We reserve the right of changes!

Bend

Item No.	Do	Length	radius	Colour	Rings	RFID	Availability
1.9315.6.0AHG0	110	315	650	Green	Felt	Kein	Upon request
1.9315.6.0AHG1	110	315	650	Green	Felt	RW 1	Spares
1.9315.6.0AHG2	110	315	650	Green	Felt	RW 2	Spares
1.9315.6.0AHG3	110	315	650	Green	Felt	RO 1	Upon request
1.9315.6.0AHG4	110	315	650	Green	Felt	RO 2	Upon request
1.9315.5.0AHG0	108	315	650	Green	Felt	Kein	Upon request
1.9315.5.0AHG1	108	315	650	Green	Felt	RW 1	Spares
1.9315.5.0AHG2	108	315	650	Green	Felt	RW 2	Spares
1.9315.5.0AHG3	108	315	650	Green	Felt	RO 1	Upon request
1.9315.5.0AHG4	108	315	650	Green	Felt	RO 2	Upon request
1.9315.N.0AHG0	110T	315	650	Green	Felt	Kein	Upon request
1.9315.N.0AHG1	110T	315	650	Green	Felt	RW 1	Spares
1.9315.N.0AHG2	110T	315	650	Green	Felt	RW 2	Spares
1.9315.N.0AHG3	110T	315	650	Green	Felt	RO 1	Upon request
1.9315.N.0AHG4	110T	315	650	Green	Felt	RO 2	Upon request
1.9315.6.0AHB0	110	315	650	Blue	Felt	Kein	Upon request
1.9315.6.0AHB1	110	315	650	Blue	Felt	RW 1	Spares
1.9315.6.0AHB2	110	315	650	Blue	Felt	RW 2	Spares
1.9315.6.0AHB3	110	315	650	Blue	Felt	RO 1	Upon request
1.9315.6.0AHB4	110	315	650	Blue	Felt	RO 2	Upon request
1.9315.5.0AHB0	108	315	650	Blue	Felt	Kein	Upon request
1.9315.5.0AHB1	108	315	650	Blue	Felt	RW 1	Spares
1.9315.5.0AHB2	108	315	650	Blue	Felt	RW 2	Spares
1.9315.5.0AHB3	108	315	650	Blue	Felt	RO 1	Upon request
1.9315.5.0AHB4	108	315	650	Blue	Felt	RO 2	Upon request
1.9315.N.0AHB0	110T	315	650	Blue	Felt	Kein	Upon request
1.9315.N.0AHB1	110T	315	650	Blue	Felt	RW 1	Spares
1.9315.N.0AHB2	110T	315	650	Blue	Felt	RW 2	Spares
1.9315.N.0AHB3	110T	315	650	Blue	Felt	RO 1	Upon request
1.9315.N.0AHB4	110T	315	650	Blue	Felt	RO 2	Upon request
1.9315.6.0AHR0	110	315	650	Red	Felt	Kein	Upon request
1.9315.6.0AHR1	110	315	650	Red	Felt	RW 1	Spares
1.9315.6.0AHR2	110	315	650	Red	Felt	RW 2	Spares
1.9315.6.0AHR3	110	315	650	Red	Felt	RO 1	Upon request
1.9315.6.0AHR4	110	315	650	Red	Felt	RO 2	Upon request
1.9315.5.0AHR0	108	315	650	Red	Felt	Kein	Upon request
1.9315.5.0AHR1	108	315	650	Red	Felt	RW 1	Spares
1.9315.5.0AHR2	108	315	650	Red	Felt	RW 2	Spares
1.9315.5.0AHR3	108	315	650	Red	Felt	RO 1	Upon request
1.9315.5.0AHR4	108	315	650	Red	Felt	RO 2	Upon request
1.9315.N.0AHR0	110T	315	650	Red	Felt	Kein	Upon request
1.9315.N.0AHR1	110T	315	650	Red	Felt	RW 1	Spares
1.9315.N.0AHR2	110T	315	650	Red	Felt	RW 2	Spares
1.9315.N.0AHR3	110T	315	650	Red	Felt	RO 1	Upon request
1.9315.N.0AHR4	110T	315	650	Red	Felt	RO 2	Upon request

Bend

Item No.	Do	Length	radius	Colour	Rings	RFID	Availability
1.9315.6.1AHG0	110	315	650	Green	Velcro	Kein	Available
1.9315.6.1AHG1	110	315	650	Green	Velcro	RW 1	Spares
1.9315.6.1AHG2	110	315	650	Green	Velcro	RW 2	Spares
1.9315.6.1AHG3	110	315	650	Green	Velcro	RO 1	Available
1.9315.6.1AHG4	110	315	650	Green	Velcro	RO 2	Available
1.9315.5.1AHG0	108	315	650	Green	Velcro	Kein	Upon request
1.9315.5.1AHG1	108	315	650	Green	Velcro	RW 1	Spares
1.9315.5.1AHG2	108	315	650	Green	Velcro	RW 2	Spares
1.9315.5.1AHG3	108	315	650	Green	Velcro	RO 1	Upon request
1.9315.5.1AHG4	108	315	650	Green	Velcro	RO 2	Upon request
1.9315.N.1AHG0	110T	315	650	Green	Velcro	Kein	Upon request
1.9315.N.1AHG1	110T	315	650	Green	Velcro	RW 1	Spares
1.9315.N.1AHG2	110T	315	650	Green	Velcro	RW 2	Spares
1.9315.N.1AHG3	110T	315	650	Green	Velcro	RO 1	Upon request
1.9315.N.1AHG4	110T	315	650	Green	Velcro	RO 2	Upon request
1.9315.6.1AHB0	110	315	650	Blue	Velcro	Kein	Available
1.9315.6.1AHB1	110	315	650	Blue	Velcro	RW 1	Spares
1.9315.6.1AHB2	110	315	650	Blue	Velcro	RW 2	Spares
1.9315.6.1AHB3	110	315	650	Blue	Velcro	RO 1	Available
1.9315.6.1AHB4	110	315	650	Blue	Velcro	RO 2	Available
1.9315.5.1AHB0	108	315	650	Blue	Velcro	Kein	Upon request
1.9315.5.1AHB1	108	315	650	Blue	Velcro	RW 1	Spares
1.9315.5.1AHB2	108	315	650	Blue	Velcro	RW 2	Spares
1.9315.5.1AHB3	108	315	650	Blue	Velcro	RO 1	Upon request
1.9315.5.1AHB4	108	315	650	Blue	Velcro	RO 2	Upon request
1.9315.N.1AHB0	110T	315	650	Blue	Velcro	Kein	Upon request
1.9315.N.1AHB1	110T	315	650	Blue	Velcro	RW 1	Spares
1.9315.N.1AHB2	110T	315	650	Blue	Velcro	RW 2	Spares
1.9315.N.1AHB3	110T	315	650	Blue	Velcro	RO 1	Upon request
1.9315.N.1AHB4	110T	315	650	Blue	Velcro	RO 2	Upon request
1.9315.6.1AHR0	110	315	650	Red	Velcro	Kein	Available
1.9315.6.1AHR1	110	315	650	Red	Velcro	RW 1	Spares
1.9315.6.1AHR2	110	315	650	Red	Velcro	RW 2	Spares
1.9315.6.1AHR3	110	315	650	Red	Velcro	RO 1	Available
1.9315.6.1AHR4	110	315	650	Red	Velcro	RO 2	Available
1.9315.5.1AHR0	108	315	650	Red	Velcro	Kein	Upon request
1.9315.5.1AHR1	108	315	650	Red	Velcro	RW 1	Spares
1.9315.5.1AHR2	108	315	650	Red	Velcro	RW 2	Spares
1.9315.5.1AHR3	108	315	650	Red	Velcro	RO 1	Upon request
1.9315.5.1AHR4	108	315	650	Red	Velcro	RO 2	Upon request
1.9315.N.1AHR0	110T	315	650	Red	Velcro	Kein	Upon request
1.9315.N.1AHR1	110T	315	650	Red	Velcro	RW 1	Spares
1.9315.N.1AHR2	110T	315	650	Red	Velcro	RW 2	Spares
1.9315.N.1AHR3	110T	315	650	Red	Velcro	RO 1	Upon request
1.9315.N.1AHR4	110T	315	650	Red	Velcro	RO 2	Upon request

1.9330.7.0A

Carrier Two Swing Lids



Dimensions:

Loading length (L1): 330 mm
 Total length (L2): ca. 342 mm
 Diameter (D): 83 mm
 Volume: 1.78 litre

Opening on both sides: yes

With:

- High-grade felt rings
- Two swing engaging lids
- Spring assisted secure closing mechanism

For:

- Tube dimension Do132
- Bend radius $r = 650$ mm

Optional:

- Velcro rings
- Colours: green, red, blue
- Equipped with two RFID chips

All available variations in the table on the next page or in our carrier configurator via the QR-code below.



Sending tube types with which the carrier can be used:

Sender tube with ring:



Carrier 1.9330.7.0A 2010 **can be send** in mixed mode with 1.9350.7.00 1986

Sender tube with sheet steel:



Carrier 1.9330.7.0A 2010 **cannot be send** mixed with other carriers. The sender contact has to be moved or a spacer needs to be put on the sheet steel.

We reserve the right of changes!

Item No.	Do	Length	Bend		Colour	Rings	RFID	Availability
			Radius					
1.9330.7.0AHG0	132	330	650		Green	Felt	None	Available
1.9330.7.0AHG1	132	330	650		Green	Felt	RW 1	Spares
1.9330.7.0AHG2	132	330	650		Green	Felt	RW 2	Spares
1.9330.7.0AHG3	132	330	650		Green	Felt	RO 1	Available
1.9330.7.0AHG4	132	330	650		Green	Felt	RO 2	Available
1.9330.7.0AHB0	132	330	650		Blue	Felt	None	Upon request
1.9330.7.0AHB1	132	330	650		Blue	Felt	RW 1	Spares
1.9330.7.0AHB2	132	330	650		Blue	Felt	RW 2	Spares
1.9330.7.0AHB3	132	330	650		Blue	Felt	RO 1	Upon request
1.9330.7.0AHB4	132	330	650		Blue	Felt	RO 2	Upon request
1.9330.7.0AHR0	132	330	650		Red	Felt	None	Upon request
1.9330.7.0AHR1	132	330	650		Red	Felt	RW 1	Spares
1.9330.7.0AHR2	132	330	650		Red	Felt	RW 2	Spares
1.9330.7.0AHR3	132	330	650		Red	Felt	RO 1	Upon request
1.9330.7.0AHR4	132	330	650		Red	Felt	RO 2	Upon request

1.9350.7.0A

Carrier Two Swing Lids



Dimensions:

Loading length (L1): 350 mm
 Total length (L2): ca. 362 mm
 Diameter (D): 71.4 mm
 Volume: 1.40 litre

Opening on both sides: yes

With:

- High-grade felt rings
- Two swing engaging lids
- Spring assisted secure closing mechanism

For:

- Tube dimension Do132
- Bend radius $r = 650$ mm

Optional:

- Velcro rings
- Colours: green, red, blue
- Equipped with two RFID chips

All available variations in the table on the next page or in our carrier configurator via the QR-code below.



Sending tube types with which the carrier can be used:

Sender tube with ring:



Carrier 1.9330.7.0A 2010 **can be send** in mixed mode with 1.9350.7.00 1986

Sender tube with sheet steel:



Carrier 1.9330.7.0A 2010 **cannot be send** mixed with other carriers. The sender contact has to be moved or a spacer needs to be put on the sheet steel.

We reserve the right of changes!

Item No.	Do	Length	Bend		Colour	Rings	RFID	Availability
			Radius					
1.9350.7.0AHG0	132	350	650		Green	Felt	None	Upon request
1.9350.7.0AHG1	132	350	650		Green	Felt	RW 1	Spares
1.9350.7.0AHG2	132	350	650		Green	Felt	RW 2	Spares
1.9350.7.0AHG3	132	350	650		Green	Felt	RO 1	Upon request
1.9350.7.0AHG4	132	350	650		Green	Felt	RO 2	Upon request
1.9350.7.0AHB0	132	350	650		Blue	Felt	None	Upon request
1.9350.7.0AHB1	132	350	650		Blue	Felt	RW 1	Spares
1.9350.7.0AHB2	132	350	650		Blue	Felt	RW 2	Spares
1.9350.7.0AHB3	132	350	650		Blue	Felt	RO 1	Upon request
1.9350.7.0AHB4	132	350	650		Blue	Felt	RO 2	Upon request
1.9350.7.0AHR0	132	350	650		Red	Felt	None	Upon request
1.9350.7.0AHR1	132	350	650		Red	Felt	RW 1	Spares
1.9350.7.0AHR2	132	350	650		Red	Felt	RW 2	Spares
1.9350.7.0AHR3	132	350	650		Red	Felt	RO 1	Upon request
1.9350.7.0AHR4	132	350	650		Red	Felt	RO 2	Upon request

1.9350.T.1B

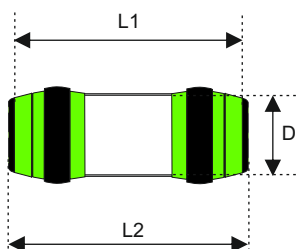
Carrier with Swing Lids



Loading capacity: 123 mm × 350 mm

Dimensions:

Loading length (L1): 350.0 mm
Total length (L2): 365.4 mm
Diameter (D): 123.0 mm
Volume: 4.2 litre



Weight: 0.8 kg

Material: plastic, impact and break resistant

With: High-grade velcro rings

For:

- Tube dimension Do160
- Bend radius $r = 650$ mm

Optional:

- Felt rings
- Colours: green, red, blue
- Equipped with two RFID chips

All available variations in the table on the next page or in our carrier configurator via the QR-code below.



We reserve the right of changes!

Item No.	Do	Length	Bend		Colour	Rings	RFID	Availability
			Radius					
1.9350.T.0BHG0	160	350	650		Green	Felt	None	Upon request
1.9350.T.0BHG3	160	350	650		Green	Felt	RO 1	Upon request
1.9350.T.0BHG4	160	350	650		Green	Felt	RO 2	Upon request
1.9350.T.0BHB0	160	350	650		Blue	Felt	None	Upon request
1.9350.T.0BHB3	160	350	650		Blue	Felt	RO 1	Upon request
1.9350.T.0BHB4	160	350	650		Blue	Felt	RO 2	Upon request
1.9350.T.0BHR0	160	350	650		Red	Felt	None	Upon request
1.9350.T.0BHR3	160	350	650		Red	Felt	RO 1	Upon request
1.9350.T.0BHR4	160	350	650		Red	Felt	RO 2	Upon request
1.9350.T.1BHG0	160	350	650		Green	Velcro	None	In stock
1.9350.T.1BHG1	160	350	650		Green	Velcro	RW 1	Spares
1.9350.T.1BHG2	160	350	650		Green	Velcro	RW 2	Spares
1.9350.T.1BHG3	160	350	650		Green	Velcro	RO 1	In stock
1.9350.T.1BHG4	160	350	650		Green	Velcro	RO 2	In stock
1.9350.T.1BHB0	160	350	650		Blue	Velcro	None	In stock
1.9350.T.1BHB1	160	350	650		Blue	Velcro	RW 1	Spares
1.9350.T.1BHB2	160	350	650		Blue	Velcro	RW 2	Spares
1.9350.T.1BHB3	160	350	650		Blue	Velcro	RO 1	In stock
1.9350.T.1BHB4	160	350	650		Blue	Velcro	RO 2	In stock
1.9350.T.1BHR0	160	350	650		Red	Velcro	None	In stock
1.9350.T.1BHR1	160	350	650		Red	Velcro	RW 1	Spares
1.9350.T.1BHR2	160	350	650		Red	Velcro	RW 2	Spares
1.9350.T.1BHR3	160	350	650		Red	Velcro	RO 1	In stock
1.9350.T.1BHR4	160	350	650		Red	Velcro	RO 2	In stock
1.9380.T.0BHG0	160	380	800		Green	Felt	None	Upon request
1.9380.T.0BHG3	160	380	800		Green	Felt	RO 1	Upon request
1.9380.T.0BHG4	160	380	800		Green	Felt	RO 2	Upon request
1.9380.T.0BHB0	160	380	800		Blue	Felt	None	Upon request
1.9380.T.0BHB3	160	380	800		Blue	Felt	RO 1	Upon request
1.9380.T.0BHB4	160	380	800		Blue	Felt	RO 2	Upon request
1.9380.T.0BHR0	160	380	800		Red	Felt	None	Upon request

Item No.	Do	Length	Bend		Colour	Rings	RFID	Availability
			Radius					
1.9380.T.0BHR3	160	380	800		Red	Felt	RO 1	Upon request
1.9380.T.0BHR4	160	380	800		Red	Felt	RO 2	Upon request
1.9380.T.1BHG0	160	380	800		Green	Velcro	None	Available
1.9380.T.1BHG1	160	380	800		Green	Velcro	RW 1	Spares
1.9380.T.1BHG2	160	380	800		Green	Velcro	RW 2	Spares
1.9380.T.1BHG3	160	380	800		Green	Velcro	RO 1	Available
1.9380.T.1BHG4	160	380	800		Green	Velcro	RO 2	Available
1.9380.T.1BHB0	160	380	800		Blue	Velcro	None	Available
1.9380.T.1BHB3	160	380	800		Blue	Velcro	RO 1	Available
1.9380.T.1BHB4	160	380	800		Blue	Velcro	RO 2	Available
1.9380.T.1BHR0	160	380	800		Red	Velcro	None	Available
1.9380.T.1BHR3	160	380	800		Red	Velcro	RO 1	Available
1.9380.T.1BHR4	160	380	800		Red	Velcro	RO 2	Available
1.9420.T.0BHG0	160	420	1200		Green	Felt	None	Upon request
1.9420.T.0BHG3	160	420	1200		Green	Felt	RO 1	Upon request
1.9420.T.0BHG4	160	420	1200		Green	Felt	RO 2	Upon request
1.9420.T.0BHB0	160	420	1200		Blue	Felt	None	Upon request
1.9420.T.0BHB3	160	420	1200		Blue	Felt	RO 1	Upon request
1.9420.T.0BHB4	160	420	1200		Blue	Felt	RO 2	Upon request
1.9420.T.0BHR0	160	420	1200		Red	Felt	None	Upon request
1.9420.T.0BHR3	160	420	1200		Red	Felt	RO 1	Upon request
1.9420.T.0BHR4	160	420	1200		Red	Felt	RO 2	Upon request
1.9420.T.1BHG0	160	420	1200		Green	Velcro	None	Available
1.9420.T.1BHG3	160	420	1200		Green	Velcro	RO 1	Available
1.9420.T.1BHG4	160	420	1200		Green	Velcro	RO 2	Available
1.9420.T.1BHB0	160	420	1200		Blue	Velcro	None	Available
1.9420.T.1BHB3	160	420	1200		Blue	Velcro	RO 1	Available
1.9420.T.1BHB4	160	420	1200		Blue	Velcro	RO 2	Available
1.9420.T.1BHR0	160	420	1200		Red	Velcro	None	Available
1.9420.T.1BHR3	160	420	1200		Red	Velcro	RO 1	Available
1.9420.T.1BHR4	160	420	1200		Red	Velcro	RO 2	Available

1.9350.T.1L

Carrier Leak-Proof with Two Flip Lids



Loading capacity: 123 mm × 350 mm

Dimension:

Loading length (L1): 350 mm
 Total length (L2): 366 mm
 Diameter (D): 123 mm
 Volume: 4.2 litre
 Load capacity: 4.0 kg max.

Weight: 0.950 kg

Material: Plastic, impact and break resistant

Opening on both sides: Yes

Easy handling: Can be opened as well as closed with only one hand

With:

- High-grade velcro rings
- Two liquid proof flip lids

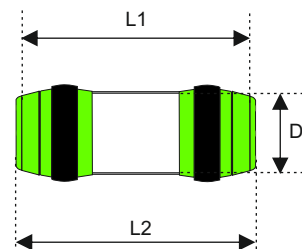
Temperature resistant: Up to 60 °C

For:

- Tube dimension Do160
- Bend radius r = 650

Optional:

- Felt rings
- Colours: green, red, blue
- Equipped with two RFID chips
- Various inlays, e.g. thermal insulation



All available variations in the table on the next page or in our carrier configurator via the QR-code below.



We reserve the right of changes!

Item No.	Bend						Availability	Item No.	Bend						Availability
	Do	Length	Radius	Colour	Rings	RFID			Do	Length	Radius	Colour	Rings	RFID	
1.9350.T.0LHG0	160	350	650	Green	Felt	None	Upon request	1.9380.T.1LHB0	160	380	800	Blue	Velcro	None	Available
1.9350.T.0LHG3	160	350	650	Green	Felt	RO 1	Upon request	1.9380.T.1LHB2	160	380	800	Blue	Velcro	RW 2	Spares
1.9350.T.0LHG4	160	350	650	Green	Felt	RO 2	Upon request	1.9380.T.1LHB3	160	380	800	Blue	Velcro	RO 1	Available
1.9350.T.0LHB0	160	350	650	Blue	Felt	None	Upon request	1.9380.T.1LHB4	160	380	800	Blue	Velcro	RO 2	Available
1.9350.T.0LHB3	160	350	650	Blue	Felt	RO 1	Upon request	1.9380.T.1LHR0	160	380	800	Red	Velcro	None	Available
1.9350.T.0LHB4	160	350	650	Blue	Felt	RO 2	Upon request	1.9380.T.1LHR2	160	380	800	Red	Velcro	RW 2	Spares
1.9350.T.0LHR0	160	350	650	Red	Felt	None	Upon request	1.9380.T.1LHR3	160	380	800	Red	Velcro	RO 1	Available
1.9350.T.0LHR3	160	350	650	Red	Felt	RO 1	Upon request	1.9380.T.1LHR4	160	380	800	Red	Velcro	RO 2	Available
1.9350.T.0LHR4	160	350	650	Red	Felt	RO 2	Upon request	1.9420.T.0LHG0	160	420	1200	Green	Felt	None	Upon request
1.9350.T.1LHG0	160	350	650	Green	Velcro	None	In stock	1.9420.T.0LHG2	160	420	1200	Green	Felt	RW 2	Spares
1.9350.T.1LHG1	160	350	650	Green	Velcro	RW 1	Spares	1.9420.T.0LHG3	160	420	1200	Green	Felt	RO 1	Upon request
1.9350.T.1LHG2	160	350	650	Green	Velcro	RW 2	Spares	1.9420.T.0LHG4	160	420	1200	Green	Felt	RO 2	Upon request
1.9350.T.1LHG3	160	350	650	Green	Velcro	RO 1	In stock	1.9420.T.0LHB0	160	420	1200	Blue	Felt	None	Upon request
1.9350.T.1LHG4	160	350	650	Green	Velcro	RO 2	In stock	1.9420.T.0LHB2	160	420	1200	Blue	Felt	RW 2	Spares
1.9350.T.1LHB0	160	350	650	Blue	Velcro	None	In stock	1.9420.T.0LHB3	160	420	1200	Blue	Felt	RO 1	Upon request
1.9350.T.1LHB1	160	350	650	Blue	Velcro	RW 1	Spares	1.9420.T.0LHB4	160	420	1200	Blue	Felt	RO 2	Upon request
1.9350.T.1LHB2	160	350	650	Blue	Velcro	RW 2	Spares	1.9420.T.0LHR0	160	420	1200	Red	Felt	None	Upon request
1.9350.T.1LHB3	160	350	650	Blue	Velcro	RO 1	In stock	1.9420.T.0LHR2	160	420	1200	Red	Felt	RW 2	Spares
1.9350.T.1LHB4	160	350	650	Blue	Velcro	RO 2	In stock	1.9420.T.0LHR3	160	420	1200	Red	Felt	RO 1	Upon request
1.9350.T.1LHR0	160	350	650	Red	Velcro	None	In stock	1.9420.T.0LHR4	160	420	1200	Red	Felt	RO 2	Upon request
1.9350.T.1LHR1	160	350	650	Red	Velcro	RW 1	Spares	1.9420.T.1LHG0	160	420	1200	Green	Velcro	None	Available
1.9350.T.1LHR2	160	350	650	Red	Velcro	RW 2	Spares	1.9420.T.1LHG1	160	420	1200	Green	Velcro	RW 1	Spares
1.9350.T.1LHR3	160	350	650	Red	Velcro	RO 1	In stock	1.9420.T.1LHG2	160	420	1200	Green	Velcro	RW 2	Spares
1.9350.T.1LHR4	160	350	650	Red	Velcro	RO 2	In stock	1.9420.T.1LHG3	160	420	1200	Green	Velcro	RO 1	Available
1.9380.T.0LHG0	160	380	800	Green	Felt	None	Upon request	1.9420.T.1LHG4	160	420	1200	Green	Velcro	RO 2	Available
1.9380.T.0LHG3	160	380	800	Green	Felt	RO 1	Upon request	1.9420.T.1LHB0	160	420	1200	Blue	Velcro	None	Available
1.9380.T.0LHG4	160	380	800	Green	Felt	RO 2	Upon request	1.9420.T.1LHB1	160	420	1200	Blue	Velcro	RW 1	Spares
1.9380.T.0LHB0	160	380	800	Blue	Felt	None	Upon request	1.9420.T.1LHB2	160	420	1200	Blue	Velcro	RW 2	Spares
1.9380.T.0LHB3	160	380	800	Blue	Felt	RO 1	Upon request	1.9420.T.1LHB3	160	420	1200	Blue	Velcro	RO 1	Available
1.9380.T.0LHB4	160	380	800	Blue	Felt	RO 2	Upon request	1.9420.T.1LHB4	160	420	1200	Blue	Velcro	RO 2	Available
1.9380.T.0LHR0	160	380	800	Red	Felt	None	Upon request	1.9420.T.1LHR0	160	420	1200	Red	Velcro	None	Available
1.9380.T.0LHR3	160	380	800	Red	Felt	RO 1	Upon request	1.9420.T.1LHR1	160	420	1200	Red	Velcro	RW 1	Spares
1.9380.T.0LHR4	160	380	800	Red	Felt	RO 2	Upon request	1.9420.T.1LHR2	160	420	1200	Red	Velcro	RW 2	Spares
1.9380.T.1LHG0	160	380	800	Green	Velcro	None	Available	1.9420.T.1LHR3	160	420	1200	Red	Velcro	RO 1	Available
1.9380.T.1LHG3	160	380	800	Green	Velcro	RO 1	Available	1.9420.T.1LHR4	160	420	1200	Red	Velcro	RO 2	Available
1.9380.T.1LHG4	160	380	800	Green	Velcro	RO 2	Available								

1.9352.V.00

Carrier Two Flip Lids



Loading capacity: 154 mm × 350 mm

Weight: 1.4544 kg

Material: Plastic

Colour: Blue

Opening on both sides: Yes

With:

- High-grade velcro rings
- Two flip lids

For:

- Tube dimension Do200
- Bend radius $r = 800$ mm or bigger

We reserve the right of changes!

1.9220.3.00

Carrier – Steel



Loading capacity: 50 mm × 220 mm
= appr. 0.7 litre

With:

- one swing lid with spring tumbler and safe self-keep closed, which can be opened easily with a heat-resistant glove

Gliding rings choosable:

- felt
- PA (polyamide)
- PTFE (Teflon)

For:

- tube dimension Do80
- bend radius $r = 500$ mm or bigger

Especially for:

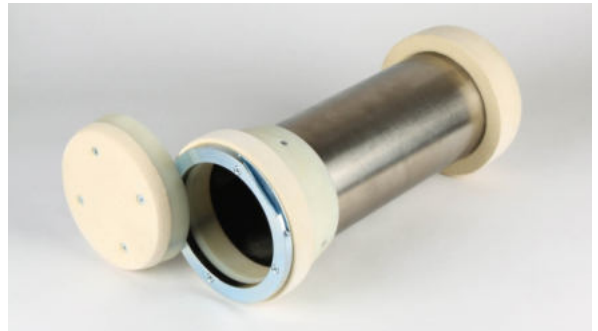
- hot samples in steel industry

The length of the carrier can be made corresponding to the requirement.

We reserve the right of changes!

1.9335.T.00

Carrier Stainless Steel/PA Swing Lid



Carrier Stainless Steel/PA
 swing lid for the transport of heavy parts

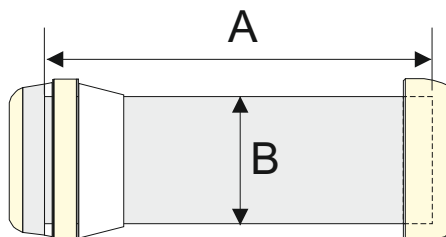
Loading capacity: A = 335 mm
 B = 114 mm Ø
 = 3.4 litre

With:

- High-grade felt-rings
- One swing lid with spring-tumbler and safe self-keep closed

For:

- Tube dimension Do160
- Bend radius r = 800 mm or bigger



We reserve the right of changes!

1.9500.W.1B

Carrier DN315



Carrier 1.9500.W.1B

Dimensions

Loading length: ca. 359 mm
Total length: ca. 500 mm
Loading diameter: ca. 195 mm
Diameter: ca. 300 mm

Weight: ca. 8 kg

Material: Conductive plastic

Colour: Black, silver, green

Opening on both sides: Yes

With

- High-grade velcro rings
- Flip lids on both sides

For

- Tube dimension Do315
- Bend radius $r = 1000$ mm or bigger

Optional

- Shape of the carrier's inside is individually adapted to the specific cargo so the carrier can easily be (un)loaded and the cargo is protected
- Contactors in both locks at the carrier's ends that communicate to the station via NFC if the carrier is locked properly

Especially for usage in

- Station 1.0512.W.00

We reserve the right of changes!

1.9902.T.1/1.9903.T.1/1.8238.T.01/1.8242.T.01

Carrier Leak-Proof with Flip Lid and Inner Carrier



For:

- Secured double containment of cytostatic drugs sent in the general Air Tube Transport System of a hospital.

Material: ABS/PC

Characteristics:

Inner Carrier

- Leak Proof Screw Cap.
- Space for one infusion bag with tubing.
- Equipped with UHF RFID Tag.

Outer Carrier:

- One liquid proof flip lid
- Equipped with two RFID chips
- High-grade velcro rings

Handling:

- Insert the infusion bag containing cytotoxic drugs into the inner carrier and close the screw cap fully, so that the triangular marks on the lid and the body point at each other.
- Insert the inner container into the outer carrier 1.9902.T.1/1.9903.T.1 ensuring the arrows on the outer and inner containers match.
- The ridge on the lid of the inner carrier has to fit exactly into the guides inside the cap of the outer carrier. Only then, the outer carrier can be closed.

Delivery Scope

- Inner container 1.8238.T.1/1.8242.T.01
- Leak-Proof-Carrier 1.9902.T.1/1.9903.T.1

Optional:

- Colours: green, red, blue
- Different lengths: see table

Outer Carrier:

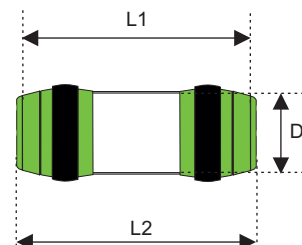
Dimension:

Loading length (L1): 380/420 mm
Total length (L2): 396/436 mm
Diameter (D): 123 mm
Load capacity: 4.0 kg max.

Weight: 0.950 kg

Material: Plastic, impact and break resistant

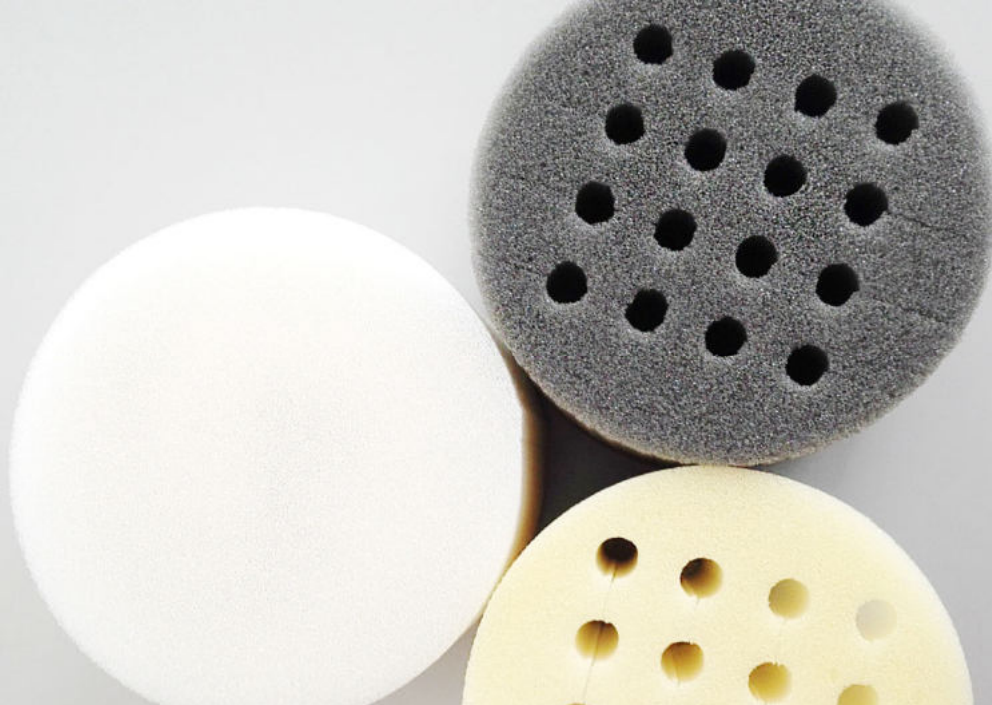
Temperature resistant: Up to 60 °C



We reserve the right of changes!

Item No.	Do	Length	Bend Radius	Colour	Rings	RFID	Availability
1.9902.T.LHG4	160	380	800	Green	Velcro	RO 2	Available
1.9902.T.LHR4	160	380	800	Red	Velcro	RO 2	Available
1.9902.T.LHB4	160	380	800	Blue	Velcro	RO 2	Available
1.8238.T.01	Fits any of the above carriers.						

Item No.	Do	Length	Bend Radius	Colour	Rings	RFID	Availability
1.9903.T.LHG4	160	420	1200	Green	Velcro	RO 2	Available
1.9903.T.LHR4	160	420	1200	Red	Velcro	RO 2	Available
1.9903.T.LHB4	160	420	1200	Blue	Velcro	RO 2	Available
1.8242.T.01	Fits any of the above carriers.						



19 CARRIER ACCESSORIES

SYSTEM H61

Heat-Insulated Inner Container	1.8224.T.00	131
High-Temperature Silicone Inlay for 0,25l Glass Bottle	1.9420.T.58	133
Foam Rubber Insert for Blood Tests	1.9011.6.22; 1.9011.T.33	134
Foam Rubber Cap	1.9011.7.23; 1.9011.T.34	135
Foam Rubber Cap	1.9011.V.23	136
Individual Vial Tray	1.9420.T.60	137
Carrier Leak-Proof with Flip Lid and Inner Carrier - Cytostatica	1.9902.T.1; 1.9903.T.1; 1.8238.T.01; 1.8242.T.01	138

1.8224.T.00

Heat-insulated Inner Container



Heat-insulated inner container (left) – Inner container with cytostatic drugs and carrier 1.9350.T.1L (right)



For

- Protecting the inserted items from leaking and temperature change

Material: ABS/PC

Characteristics

- Has space for one 0.25 l or 0.5 l glass bottle or one infusion bag with tubing

Installation

- Insert the item to be sent into the inner container and close the screw cap
- Insert the inner container into the carrier 1.9350.T.0L/1L and close the carrier

Delivery Scope

- Inner container
- The associated carrier 1.9350.T.0L/1L has to be ordered additionally

Optional

- Different lengths: see next side

Accessories

- High-temperature silicone inlay
- Individual vial inlay

We reserve the right of changes!

Available lengths for different carrier sizes:

Inner Container Item No.	Length Inner Container	Do Carrier	Carrier Item No.	Carrier Space for Number of Containers
1.8235.T.00	350	160	1.9350.T.xL	1
1.8238.T.00	380	160	1.9380.T.xL	1
1.8238.T.01	380	160	1.9380.T.xL	1
1.8224.T.01	200	160	1.9420.T.xL	2
1.8224.T.00	400	160	1.9420.T.xL	1
1.8242.T.00	420	160	1.9420.T.xL	1

We reserve the right of changes!

1.9420.T.58

High-temperature Silicone Inlay for 0.25 l Glass Bottle



Silicone inlay (left) – Silicone inlay with 0.25 l glass bottle inside, next to heat-insulated inner container 1.8224.T.00 and carrier 1.9350.T.1L (right)

For

- Protecting the inserted glass bottle with high-temperature content up to 160°C from heating / cooling as well as the inner container from melting

Material: Silicone block

Characteristics

- Can only be used in combination with inner container 1.8224.T.00
- Offers space for one 0.25 l glass bottle (by Schott)
- After 20 minutes of transport time, a bottle with 160°C cooled down by 20°C according to our test series

Installation

- Insert the glass bottle to be sent into the silicone inlay that sits already in the inner container 1.8224.T.00
- Insert the container into the carrier 1.9350.T.1L and close the carrier

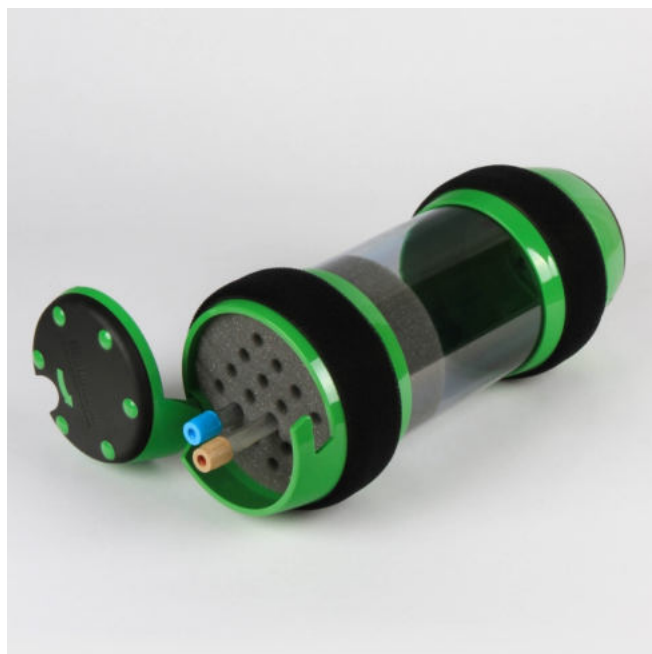
Delivery Scope

- Silicone inlay
- The associated products have to be ordered additionally:
 - 0.25 l glass bottle
 - Heat-insulated inner container 1.8224.T.00
 - Carrier 1.9350.T.1L

We reserve the right of changes!

1.9011.6.22 / 1.9011.T.33

Foam Rubber Insert for Blood Tests



Foam rubber insert 1.9011.6.22 (left) and 1.9011.T.33 (left) – Insert 1.9011.T.33 with carrier 1.9350.T.1B and test tubes (right)

Purpose: Protecting the inserted test tubes

Material: PU foam rubber (washing temperature: 120°C)

Different dimensions available:

Foam rubber cap for inserting in carriers 1.9224 / Do110:

Has capacity for: 9 tubes each insert
One carrier can accommodate two inserts with 18 tubes in total

Dimensions: 83 mm × 115 mm
Weight: 0.0132 kg
Art.no.: 1.9011.6.22

Foam rubber cap for inserting in carriers 1.9350.T.xxH:

Has capacity for: 16 tubes each side of an insert
One insert can accommodate 32 tubes in total

Dimensions: 123 mm × 100 mm
Weight: 0.0246 kg
Art.no.: 1.9011.T.33

We reserve the right of changes!

1.9011.7.23 / 1.9011.T.34

Foam Rubber Cap



Foam rubber cap 1.9011.T.34 (left) with carrier 1.9350.T.1L and glas bottle

For

- Inserting into carriers to protect the transported item
- Foam with item no. 1.9011.7.23 is suitable for carriers:
 - 1.9224.6 / 1.9224.5 / 1.9224.N
 - 1.9330.7
- Foam with item no. 1.9011.T.34 is suitable for carriers
 - 1.9350.T.0B / 1.9350.T.1B / 1.9350.T.0L / 1.9350.T.1L
 - 1.9380.T.0B / 1.9380.T.1B / 1.9380.T.0L / 1.9380.T.1L
 - 1.9420.T.0B / 1.9420.T.1B / 1.9420.T.0L / 1.9420.T.1L

Characteristics

- Washable with 120°C

Material

PU foam

Colour

Dark grey

Dimensions

- Article 1.9011.7.23
 - 83 mm × 40 mm
 - Weight: 36.0 g
- Article 1.9011.T.34
 - 123 mm × 100 mm
 - Weight: 28.0 g

We reserve the right of changes!

1.9011.V.23

Foam Rubber Cap



For

- Inserting into carriers to protect the transported item
- Suitable for carriers:
 - 1.9350.V.00
 - 1.9352.V.00

Characteristics

- Washable with 120°C

Material

PU foam

Colour

Dark grey

Dimensions

150 mm × 100 mm

Weight

42 g

We reserve the right of changes!

1.9420.T.60

Individual Vial Tray



Individual vial tray (left) – Individual vial tray with two vials, foam inlay 1.9011.7.23, inner container 1.8224.T.00 and carrier 1.9350.T.1L (right)

For

- Having a laboratory tray which can hold several test tubes and can directly be sent through the tube system without repacking the test tubes

Material: PLA

Characteristics

- Space for up to 5 individual vials (26 mm diameter)
- Ring on the top for easy removal of the tray from the carrier

Installation

- Insert the vials to be sent into the tray
- Put the foam inlay on top
- Insert the tray into the heat-insulated inner container 1.8224.T.00 and close the container
- Insert the container into the carrier 1.9350.T.1L and close the carrier

Dimensions: 14 mm (h) × 8.5 mm (w)

Weight: 111 g

Delivery Scope

- Individual vial tray
- The associated products have to be ordered additionally:
 - Heat-insulated inner container 1.8224.T.00
 - Carrier 1.9350.T.1L
 - Foam inlay 1.9011.7.23

We reserve the right of changes!

1.9902.T.1/1.9903.T.1/1.8238.T.01/1.8242.T.01

Carrier Leak-Proof with Flip Lid and Inner Carrier



For:

- Secured double containment of cytostatic drugs sent in the general Air Tube Transport System of a hospital.

Material: ABS/PC

Characteristics:

Inner Carrier

- Leak Proof Screw Cap.
- Space for one infusion bag with tubing.
- Equipped with UHF RFID Tag.

Outer Carrier:

- One liquid proof flip lid
- Equipped with two RFID chips
- High-grade velcro rings

Handling:

- Insert the infusion bag containing cytotoxic drugs into the inner carrier and close the screw cap fully, so that the triangular marks on the lid and the body point at each other.
- Insert the inner container into the outer carrier 1.9902.T.1/1.9903.T.1 ensuring the arrows on the outer and inner containers match.
- The ridge on the lid of the inner carrier has to fit exactly into the guides inside the cap of the outer carrier. Only then, the outer carrier can be closed.

Delivery Scope

- Inner container 1.8238.T.1/1.8242.T.01
- Leak-Proof-Carrier 1.9902.T.1/1.9903.T.1

Optional:

- Colours: green, red, blue
- Different lengths: see table

Outer Carrier:

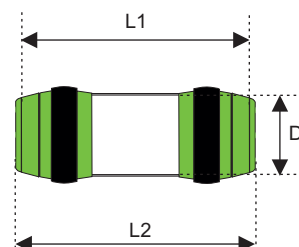
Dimension:

Loading length (L1): 380/420 mm
Total length (L2): 396/436 mm
Diameter (D): 123 mm
Load capacity: 4.0 kg max.

Weight: 0.950 kg

Material: Plastic, impact and break resistant

Temperature resistant: Up to 60 °C



We reserve the right of changes!

Item No.	Do	Length	Bend Radius	Colour	Rings	RFID	Availability
1.9902.T.LHG4	160	380	800	Green	Velcro	RO 2	Available
1.9902.T.LHR4	160	380	800	Red	Velcro	RO 2	Available
1.9902.T.LHB4	160	380	800	Blue	Velcro	RO 2	Available
1.8238.T.01	Fits any of the above carriers.						

Item No.	Do	Length	Bend Radius	Colour	Rings	RFID	Availability
1.9903.T.LHG4	160	420	1200	Green	Velcro	RO 2	Available
1.9903.T.LHR4	160	420	1200	Red	Velcro	RO 2	Available
1.9903.T.LHB4	160	420	1200	Blue	Velcro	RO 2	Available
1.8242.T.01	Fits any of the above carriers.						



20 DIVERTER SYSTEM H61

Diverter 3-Way with AW H61F	1.0394.6.0F	140
Diverter 3-Way with AW H61F	1.0395.T.0F; 1.0395.V.0F	141
Diverter 4-Way with AW H61F	1.0397.6.0F	142
Diverter 4-Way with AW H61F	1.0397.T.0F	143

1.0394.6.0F

Diverter 3-Way with AW H61F



Diverter 1.0394.6.0F

Characteristics

- Can be used as 2- or 3-way diverter
- S-bend (swivel tube) construction ($r = 800 \text{ mm}$)
- Hall position sensor controlled safe snap of the swivel tube into correct positions
- All functions can be checked directly at the diverter
- Absolutely suction and pressure tight

Installation/Service

- Installation in any direction
- Easy service when installed in ceiling
- Aligns perfectly within minutes during reassembly

Technical properties

Material: Sheet-steel case, plastic-covered, with PVC and ABS parts inside

Colour: Powder coated, black

Tube: Do110

Housing: ca. 630 mm (h) × 315 mm (w) × 241 mm (d)

Weight: ca. 12.30 kg

Delivery Scope

- Including AW control unit

We reserve the right of changes!

1.0395.T.0F / 1.0395.V.0F

Diverter 3-Way with AW H61F



Diverter 1.0395.T.0F

Characteristics

- Can be used as 2- or 3-way diverter
- S-bend (swivel tube) construction
- Hall position sensor controlled safe snap of the swivel tube into correct positions
- All functions can be checked directly at the diverter
- Absolutely suction and pressure tight
- Suitable for carriers up to 420 mm
- MTBF 8 years

Installation/Service

- Installation in any direction
- Easy service when installed in ceiling
- Aligns perfectly within minutes during reassembly

Technical properties

Material: Sheet-steel case, plastic-covered, with PVC and ABS parts inside

Colour: Powder coated, white-grey, appr. RAL 7035

Tube: Do160 (1.0395.T.0F) / Do200 (1.0395.V.0F)

Housing:

1.0395.T.0F:

ca. 770 mm (h) × 500 mm (w) × 353 mm (d)

1.0395.V.0F:

ca. 1165 mm (h) × 606 mm (w) × 442 mm (d)

Weight:

1.0395.T.0F: ca. 28 kg

1.0395.V.0F: ca. 58 kg

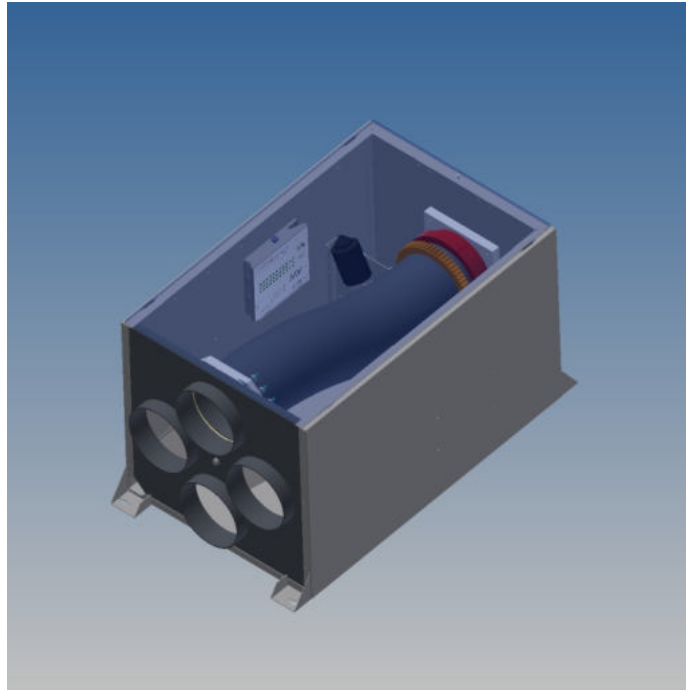
Delivery Scope

- Including AW control unit

We reserve the right of changes!

1.0397.6.0F

Diverter 4-Way with AW H61F



Diverter 1.0397.6.0F

Characteristics

- S-bend (swivel tube) construction
- Hall position sensor controlled safe snap of the swivel tube into correct positions
- All functions can be checked directly at the diverter
- Absolutely suction and pressure tight
- Suitable for carriers up to 420 mm
- MTBF 8 years

Installation/Service

- Installation in any direction
- Easy service when installed in ceiling
- Aligns perfectly within minutes during reassembly

Technical properties

Material: Sheet-steel case, plastic-covered, with PVC and ABS parts inside

Colour: Powder coated, white-grey, appr. RAL 7035

Tube: Do110

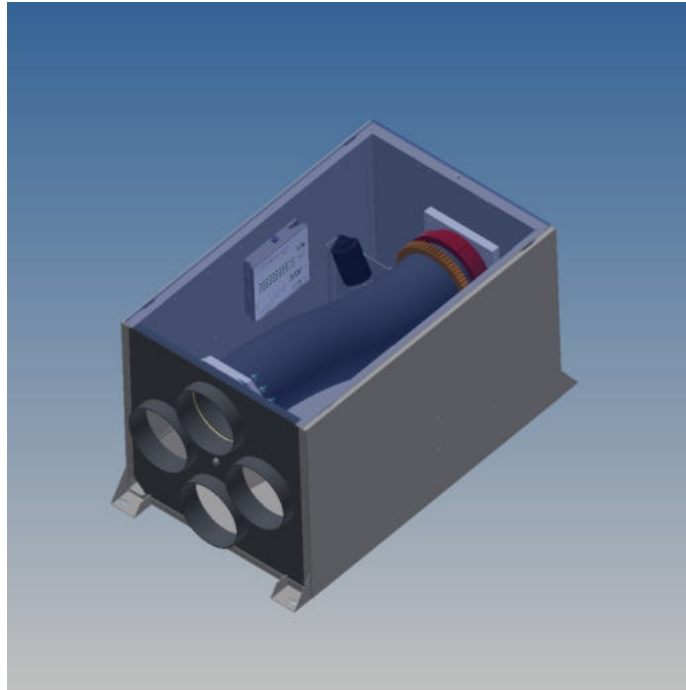
Delivery Scope

- Including AW control unit

We reserve the right of changes!

1.0397.T.0F

Diverter 4-Way with AW H61F



Diverter 1.0397.T.0F

Characteristics

- S-bend (swivel tube) construction
- Hall position sensor controlled safe snap of the swivel tube into correct positions
- All functions can be checked directly at the diverter
- Absolutely suction and pressure tight
- Suitable for carriers up to 420 mm
- MTBF 8 years

Installation/Service

- Installation in any direction
- Easy service when installed in ceiling
- Aligns perfectly within minutes during reassembly

Technical properties

Material: Sheet-steel case, plastic-covered, with PVC and ABS parts inside

Colour: Powder coated, white-grey, appr. RAL 7035

Tube: Do160

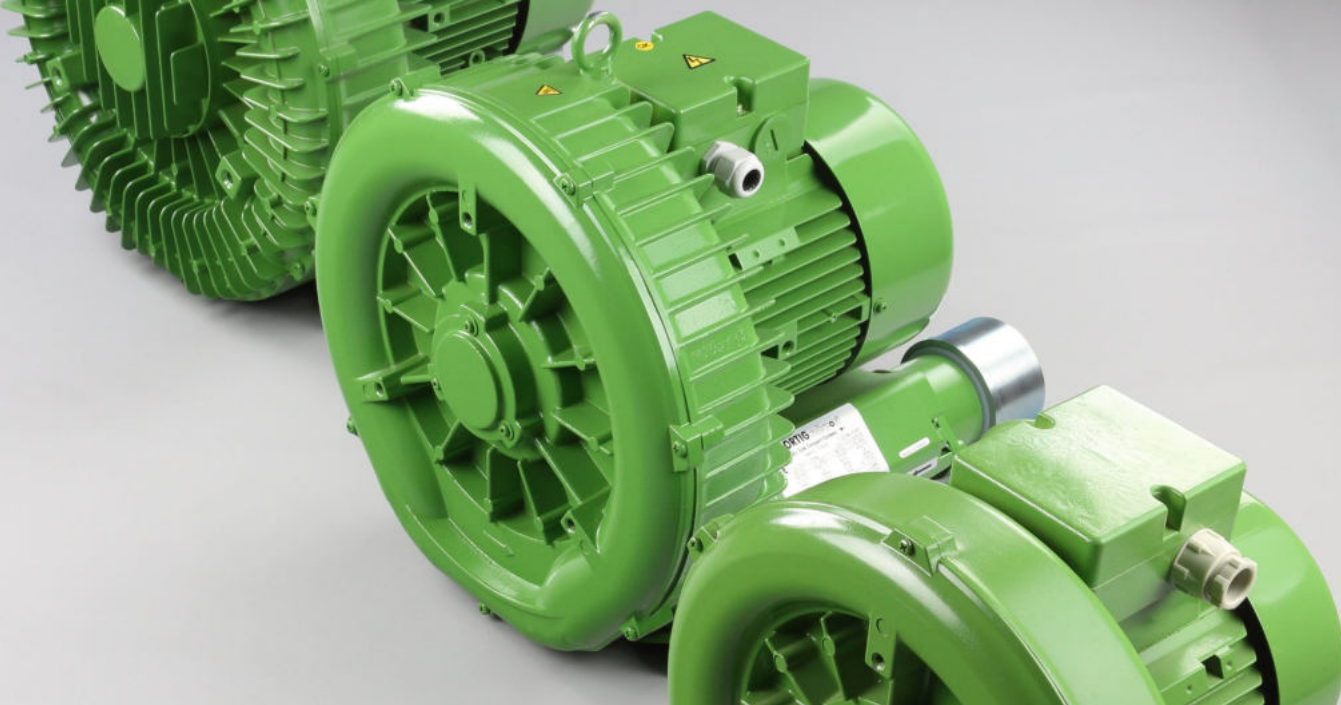
Housing: ca. 770 mm (h) × 500 mm (w) × 353 mm (d)

Weight: ca. 28 kg

Delivery Scope

- Including AW control unit

We reserve the right of changes!



21 BLOWER

SYSTEM H61

Blower Unit 230V / Air Tube Connection Set	1.2023.2.00; 1.2053.2.00; 1.2023.2.50	145
Blower Unit 230V / Air Tube Connection Set	1.2030.3.0C; 1.2030.6.80	146
Blower Unit 3-Phase 400V / Air Tube Connection Set	1.2184.3.0C; 1.2184.6.80	148
Blower Unit 3-Phase 400V / Air Tube Connection Set	1.2185.3.0C; 1.2185.6.80	150
Blower Unit 3-Phase 4.6kW	1.2187.3.0C	152

1.2023.2.00 / 1.2053.2.00 / 1.2023.2.50

Blower Unit 230 V / Air Tube Connection Set



Blower Unit 1.2023.2.00



Air Tube Connection Set 1.2023.2.50

Blower Unit 1.2023.2.00 / 1.2053.2.00

Characteristics

- Max. 2000 l/min
- Max. 110 mbar
- 230 V
- 50 Hz
- 1kW
- With one motor for suck-air / pressure-air
– 1 × 1100 W (1.2023.2.00)
- With two motors for suck-air / pressure-air
– 2 × 1100 W (1.2053.2.00)

Installation

- At wall, at ceiling, or at bottom

Dimensions

Flange diameter: Do63

Housing: appr. 435 mm × 210 mm × 205 mm

Accessories

- Air Tube Connection Set 1.2023.2.50

Air Tube Connection Set 1.2023.2.50

For

- Connecting the blower unit 1.2023.2.00/1.2053.2.00 to the system (with one air tube connection set installed)
- Connecting the blower unit 1.2023.2.00/1.2053.2.00 to air source/sink (with two air tube connection sets installed)

Characteristics

- Vibration absorbing rubber sleeve Do63
- Adaptor from 63 to 110 mm

Dimensions

Tube: for tube dimensions up to Do110

Length: 150 mm

We reserve the right of changes!

1.2030.3.0C / 1.2030.6.80

Blower Unit 230 V / Air Tube Connection Set



Blower Unit 1.2030.3.0C



Connection Set 1.2030.6.80

Blower Unit 1.2030.3.0C

Characteristics

- Compact design
- Very low noise
- 3-phase motor
- Single-phase connection

Installation

- At wall, at ceiling, or at bottom
- Motor axis can be horizontal or vertical (see graphic on the next page)

Dimensions

Flange size: Do80

Housing: see table

Accessories

- Air Tube Connection Set 1.2030.6.80
- Wall mounting plate 1.2331.0.02

Air Tube Connection Set 1.2030.6.80

For

- Connecting the blower unit 1.2030.3.0C to the system

Characteristics

- Vibration absorbing rubber sleeves Do63
- Adaptors from 80 to 110 mm

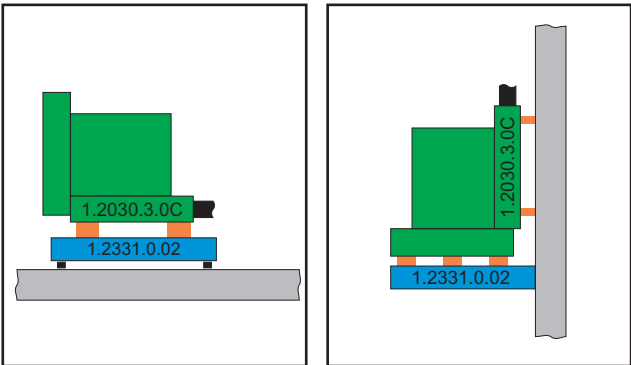
Dimensions

Tube: for tube dimensions up to Do110

Length: 150 mm

We reserve the right of changes!

Art #	f [Hz]	Voltage	Power [kW]	max P [kPas]	Vol [l / min]	height [mm]	width [mm]	depth [mm]	weight [kg]	dB (A)
1.2030.3.0C	50	200 – 230	0,8	15	2400	303	266	262	17	69
	60	200 – 230	0,9	16	3000	303	266	262	17	69



Installation Options

			2030			
tube Do	length [m]	pay load [kg]	freq [Hz]	speed [m/s]	freq [Hz]	speed [m/s]
110	200	1	50	3,9	60	4,7
110	200	2	50	3,6	60	4,3
110	400	2	50	3,0	60	3,6
110	500	3	50	2,5	60	3,0

Typical Application Cases of Product 2030

1.2184.3.0C / 1.2184.6.80

Blower Unit 3-Phase 400 V / Air Tube Connection Set



Blower Unit 1.2184.3.0C



Connection Set 1.2184.6.80

Blower Unit 1.2184.3.0C

Characteristics

- Side channel blower with 1.5 kW at 50 Hz or 1.75 kW at 60 Hz
- Maximum volume and pressure see table

Installation

- At wall, at ceiling, or at bottom
- Motor axis can be horizontal or vertical (see graphic on the next page)

Dimensions

- See table

Motor

- IE2
- Connection to 3×220V or 3×400V

Accessories

- Blower connection set 1.2184.6.80
- Two blower connection set 1.2322.6.20
- Wall mounting plate 1.2331.0.02

Air Tube Connection Set 1.2184.6.80

For

- Connecting the blower unit 1.2184.3.0C to the system

Characteristics

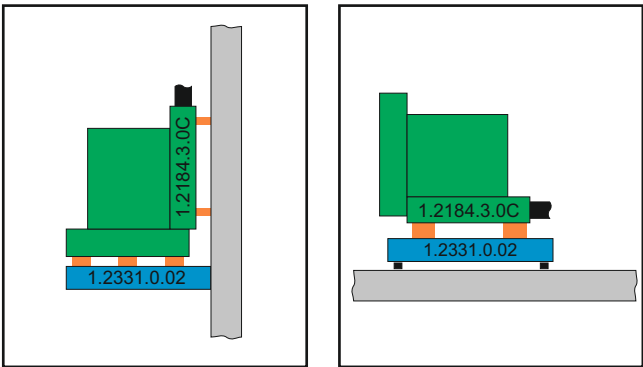
- Vibration absorbing rubber sleeves Do63
- Adaptors from 80 to 110 mm

Dimensions

Tube: for tube dimensions up to Do110
Length: 150 mm

We reserve the right of changes!

Art #	f [Hz]	Voltage	Power [kW]	max P [kPas]	Vol [l / min]	height [mm]	width [mm]	depth [mm]	weight [kg]	dB (A)
1.2184.3.0C	50	380 - 440	1.5	20	3600	345	333	323	23.5	72
	60	380 - 440	1.75	20	4200	345	333	323	23.5	72



Installation Options

Tube Do	Length [m]	Pay Load [kg]	2184			
			Freq [Hz]	Speed [m/s]	Freq [Hz]	Speed [m/s]
110	200	3	50	5.2	60	6.2
110	500	9	50	3.1	60	3.7
160	200	3	50	2.7	60	3.2
160	200	9	50	2.4	60	2.9
160	500	15	50	1.9	60	2.3
160	1000	3	50	1.9	60	2.3

Typical Application Cases of Product 2184

1.2185.3.0C / 1.2185.6.80

Blower Unit 3-Phase 400 V / Air Tube Connection Set



Blower Unit 1.2185.3.0C



Connection Set 1.2185.6.80

Blower Unit 1.2185.3.0C

Characteristics

- Side channel blower with 2.2 kW at 50 Hz or 2.55 kW at 60 Hz
- Maximum volume and pressure see table

Installation

- At wall, at ceiling, or at bottom
- Motor axis can be horizontal or vertical (see graphic on the next page)

Dimensions

- See table

Motor

- IE2
- Connection to 3×220V or 3×400V

Accessories

- Blower connection set 1.2185.6.80
- Two blower connection set 1.2322.6.20
- Wall mounting plate 1.2331.0.02

Air Tube Connection Set 1.2185.6.80

For

- Connecting the blower unit 1.2185.3.0C to the system

Characteristics

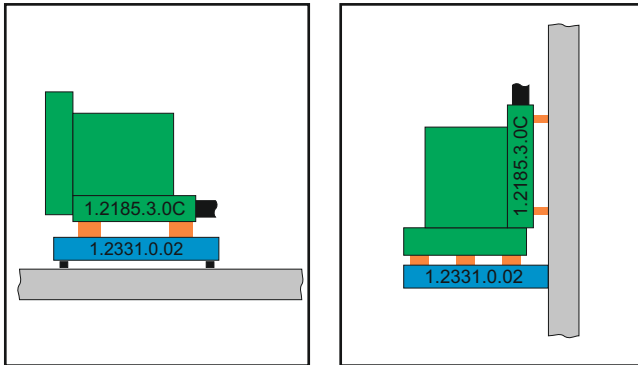
- Vibration absorbing rubber sleeves Do63
- Adaptors from 80 to 110 mm

Dimensions

Tube: for tube dimensions up to Do110
Length: 150 mm

We reserve the right of changes!

Art #	f [Hz]	Voltage	Power [kW]	max P [kPas]	Vol [l / min]	height [mm]	width [mm]	depth [mm]	weight [kg]	dB (A)
1.2185.3.0C	50	380 - 440	2.2	20	5100	377	382	383	36	76
	60	380 - 440	2.55	20	6200	377	382	383	36	76



Installation Options

Tube Do	Length [m]	Pay Load [kg]	2185			
			Freq [Hz]	Speed [m/s]	Freq [Hz]	Speed [m/s]
110	200	3	50	8.0	60	9.6
110	500	9	50	5.5	60	6.6
160	200	3	50	4.0	60	4.8
160	200	9	50	3.7	60	4.4
160	500	15	50	3.1	60	3.7
160	1.000	3	50	3.0	60	3.6

Typical Application Cases of Product 2185

1.2187.3.0C / 1.2188.3.0C / 1.2187.6.80

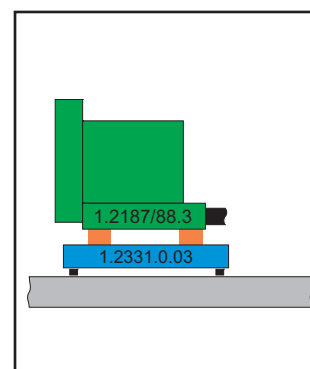
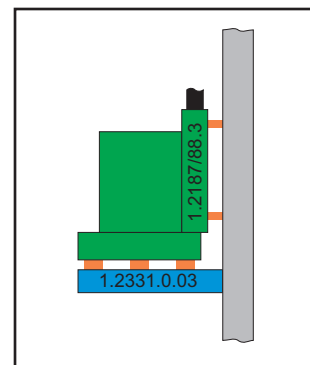
Blower Unit 3-Phase 4.6 / 6.3 kW



Blower Unit 1.2187.3.0C/1.2188.3.0C



Installation Set 1.2187.6.80



Installation Options

Dimensions

Size: 487 (h) × 466 (w) × 498 (d)

Weight:

1.2187.3.0C: 117 kg

1.2188.3.0C: 126 kg

Installation position

- On floor
- On wall

Motor

IE2, connection to 3 × 400V, up to 60 Hz

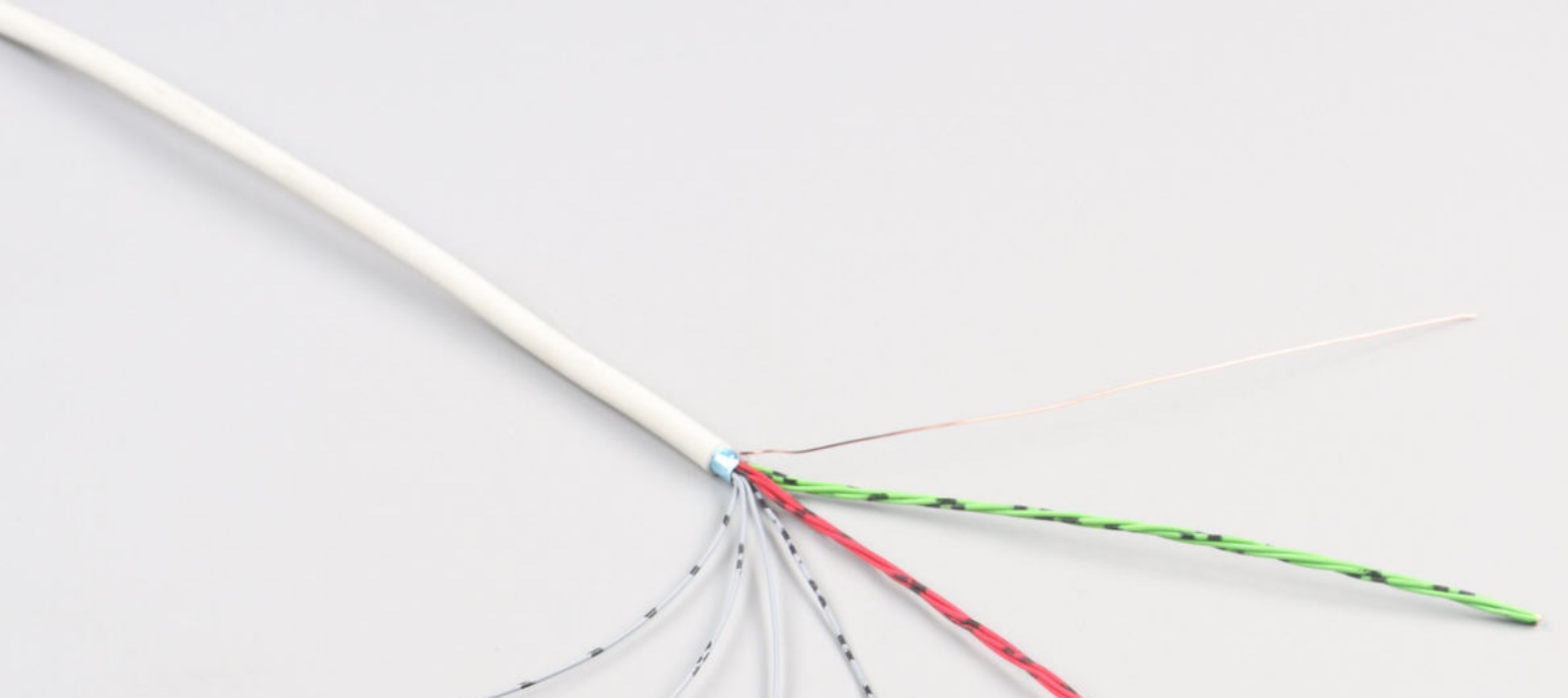
Accessories

- Blower installation set for air tube Do110 1.2187.6.80 with screws and shock absorbers
- Mounting plate for wall or floor 1.2331.0.03

Art #	Frequency [Hz]	Power [kW]	maxP [hPas]	Vol [m³/h]	Noise [dB (A)]	Weight [kg]
1.2187.3.0C	50	4,0	340	510	73	117
	60	4,6	400	600	73	117
1.2188.3.0C	50	5,5	370	510	73	126
	60	6,3	440	600	73	126

tube Do	length [m]	pay load [kg]	speed 4.0 kW @ 50 Hz [m/s]	speed 4.6 kW @ 60 Hz [m/s]	speed 5.5 kW @ 50 Hz [m/s]	speed 6.3 kW @ 60 Hz [m/s]
110	200	3	7,0	8,4	9,6	11,6
110	500	15	6,4	7,7	8,8	10,6
160	200	3	7,1	8,5	9,8	11,7
160	200	5	7,0	8,4	9,6	11,6
160	500	15	6,1	7,3	8,4	10,1
160	1.000	3	6,0	7,2	8,3	9,9

We reserve the right of changes!



22 CABLE

SYSTEM H61

Underground Cable/Cable Joint/Control Cable Halogen Free	7.2110.2.06; 7.3800.0.10; 7.2206.2.06; 7.2210.2.06; 7.2216.2.06	154
Control Cable	7.2590.0.15; 7.2022.2.06; 7.2500.4.05	155
Control Cable	7.2590.0.15	156

7.2110.2.06 / 7.3800.0.10 / 7.2206.2.06 / 7.2210.2.06 / 7.2216.2.06

Underground Cable / Cable Joint / Control Cable Halogen Free



7.3800.0.10



7.2210.2.06



7.2206.2.06

Underground cable (7.2110.2.06)

For

- Installing cable under the ground

Characteristics

- Waterproof

Installation

- In sand bed

Dimensions: 10 × 2 × 0.6 mm diameter
 13.0 mm outer diameter

Weight: 180 kg/km

Delivery Scope

- Underground cable per meter

Cable joint (7.3800.0.10)

For

- Connecting the underground cable with the system cable after entering the building

Characteristics

- LSA plus bar in a housing

Installation

- In a dry surrounding – not under water

Dimensions: 100 (h) x 100 (w) x 60 (d) mm

Delivery Scope

- LSA plus without tool

Control cable (7.2206.2.06, 7.2210.2.06, 7.2216.2.06)

For

- Projects with halogen free plastics

Characteristics

- Halogen free

Dimensions: see optional

Delivery Scope

- Cable per meter

Optional

- Number of wires:
 - 6 × 2 × 0.6 mm diameter (7.2206.2.06)
 - 10 × 2 × 0.6 mm diameter (7.2210.2.06)
 - 16 × 2 × 0.6 mm diameter (7.2216.2.06)

We reserve the right of changes!

7.2590.0.15 / 7.2002.2.06 / 7.2500.4.05

Control Cable



7.2590.0.15



7.2002.2.06

Control cable System H61F blue (7.2590.0.15)

For

- System H61F, H61G

Characteristics

- Bus and power cable combined in one
- Power wires with 1.95 mm² flexible
- 2 pairs of data wires with 0.25 mm² flexible in copper mesh shield for each data pair

Installation

- Along tubes with cable ties, 3 per meter

Material

- PVC, Copper

Dimensions

- Diameter: 12 mm

Connection cable for arrival signals (7.2002.2.06)

For

- Arrival signals in System H21, H61x

Characteristics

- 2 pairs of copper wire 0.6 mm

Installation

- On walls and in ducts between station and signal lamp

Material

- PVC, copper

Dimensions

- Diameter: 4 mm

Connection cable between revolver and FiFOs (7.2500.4.05)

For

- Wiring between the revolver and the FiFOs on top

Characteristics

- Two pairs of flexible copper wires 0.5 mm²

Installation

- At revolver structure with cable ties

Material

- PVC and copper

Dimensions

- Diameter: 6 mm

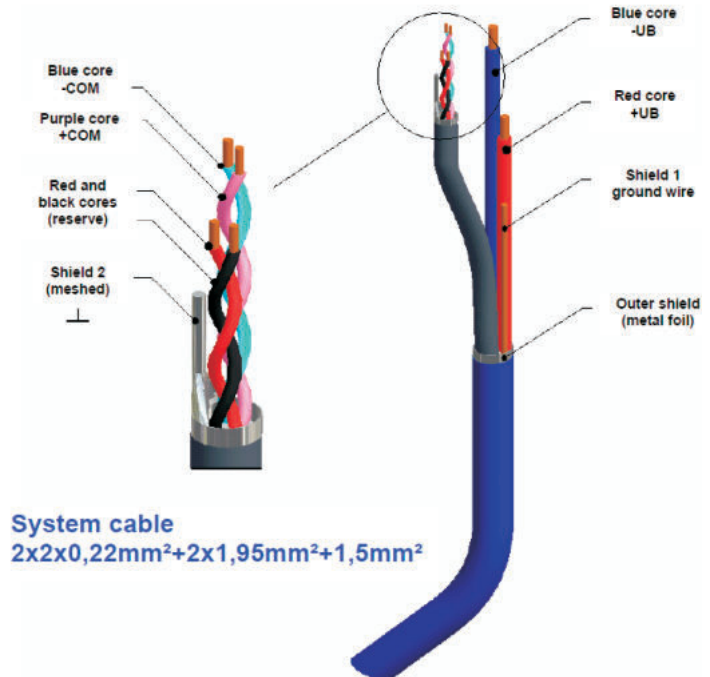
We reserve the right of changes!

7.2590.0.15

Control Cable H61F – blue colour



7.2590.0.15



Operating temperature: -40°C to 80°C

Min. installation temperature: -5°C

Operating voltage: 300 V

Test voltage:

Power cores: 2000 V

Control cores: 1000 V

Insulation resistance:

Power cores: min. 20 MΩxkm

Control cores: min. 1000 MΩxkm

Min. bending radius: 10 x D

Conductors: multi-stranded copper conductors

-Power cores: 1.95 mm²

-Control cores: 0.22 mm²

Insulation:

-Power cores: PVC

-Control cores: PE

Core identification:

-Power cores: red, blue

-Control cores: 1-red/black; 2-blue/pink



Core identification:

-Power cores: red, blue

-Control cores: 1-red/black; 2-blue/pink

Core arrangement: Control cores twisted in pairs; pairs twisted together, screened with tinned copper wire braid and PVC sheathed
 Control cores (screened and PVC sheathed) twisted together with power cores

Screen: AL.-PET tape with copper drain wire underneath (1.5 mm²)

Outer sheath: Special PVC, self-extinguishing and flame retardant (EN 60332-1 – test performed on a single cable)

Outer sheath color: blue RAL5000

Application: Internal applications, in dry and damp rooms.

n x mm²: 2x2x0.22+2x1.95

Outer diameter: 10.2 mm

Appr. cable weight: 176 kg/km

Cu: 71 kg/km

We reserve the right of changes!



23 TUBE MATERIAL

SYSTEM H61

Tube/Bend/Sleeve Iron Grey Do110	1.4110.6.00; 1.4160.6.00; 1.4232.6.00; 1.4250.6.00; 1.4215.6.00	158
Tube/Bend/Sleeve Iron Grey Do160	1.4110.T.00; 1.4250.T.00; 1.4265.T.00; 1.4160.T.00	159
Tube/Bend/Sleeve Iron Grey	1.4110.x.00; 1.3110.x.00 ; 1.4215.x.00; 1.4225.x.00; 1.3220.x.00; 1.3250.x.00; 1.4240.x.00; 1.3232.x.00; 1.3260.x.00; 1.3270.x.00; 1.4232.x.00; 1.4250.x.00; 1.4266.x.00; 1.4275.x.00; 1.4160.x.00; 1.3160.x.00	160
Tube/Bend PMMA	1.4411.x.00; 1.4632.6.00; 1.4650.T.00	161
Tube/Bend/Sleeve Silver Grey	1.4110.W.00; 1.4250.W.00; 1.4160.W.00	162
Tube/Bend Stainless Steel	1.5510.x.00; 1.5620.x.xx; 1.5640.4.00; 1.5632.x.00; 1.5650.x.xx; 1.5660.7.00; 1.5665.T.00	163
Tube/Bend Transparent	1.4410.x.00; 1.3410.x.00; 1.4410.x.00; 1.4525.2.00; 1.3550.5.00; 1.4532.6.00; 1.3532.7.00; 1.4550.x.00	164
Tube/Bend/Sleeve White	1.4110.x.01; 1.4215.x.01; 1.4225.x.01; 1.4232.6.01; 1.4160.x.01	165

1.4110.6.00 / 1.4160.6.00 / 1.4232.6.00 / 1.4250.6.00 / 1.4215.6.00

Tube / Bend / Sleeve Iron Grey Do 110



Sleeve, Tube and Bends in two different Radiuses

Material: PVC-U

Colour: RAL 7011 iron grey

Meet the standards:

DIN6660 and DIN8061/62

Item No.	1.4110.6.00
Type	Tube
Do [mm]	110
Wall Thickness [mm]	2.3
Shipping Length [mm]	5000
Weight [kg/m]	1.09

	1.4215.6.00	1.4232.6.00	1.4250.6.00
Type	Bend	Bend	Bend
Do [mm]	110	110	110
Wall Thickness [mm]	2.3	2.3	2.3
Radius [mm]	300	650	800
Weight [kg/pc]	0.687	1.33	1.59

	1.4160.6.00
Type	Sleeve
Do [mm]	110
Wall Thickness [mm]	2.3
Length [mm]	110
Weight [kg/pc]	0.13

Other sizes on request.

We reserve the right of changes!

1.4110.T.00 / 1.4250.T.00 / 1.4265.T.00 / 1.4160.T.00

Tube / Bend / Sleeve Iron Grey Do 160



Sleeve, Tube and Bends in two different Radiuses

Material: PVC-U

Colour: RAL 7011 iron grey

Meet the standards:

DIN6660 and DIN8061/62

Item No.	1.4110.T.00
Type	Tube
Do [mm]	160
Wall Thickness [mm]	3.2
Shipping Length [mm]	5000
Weight [kg/m]	2.21

	1.4250.T.00	1.4265.T.00
Type	Bend	Bend
Do [mm]	160	160
Wall Thickness [mm]	3.2	3.2
Radius [mm]	800	1200
Weight [kg/pc]	3.23	4.61

	1.4160.T.00
Type	Sleeve
Do [mm]	160
Wall Thickness [mm]	3.2
Length [mm]	150
Weight [kg/pc]	0.40

Other sizes on request.

We reserve the right of changes!

1.4110.x.00 / 1.3110.x.00 / 1.4215.x.00 / 1.4225.x.00 / 1.3220.x.00 / 1.3250.x.00 / 1.4240.x.00 /
1.3232.x.00 / 1.3260.x.00 / 1.3270.x.00 / 1.4232.x.00 /
Tube / Bend / Sleeve Iron Grey 1.4250.x.00 / 1.4266.x.00 / 1.4275.x.00 / 1.4160.x.00 /
1.3160.x.00



Left: Three Tubes in different Diameters – Right: Sleeve, Tube and Bend

Material: PVC-U

Colour: RAL 7011 iron grey

Meets the standards: DIN6660 and DIN8061/62

Item No.	1.4110.2.00	1.3110.3.00	1.3110.5.00	1.4110.N.00	1.3110.7.00	1.4110.V.00
Type	Tube	Tube	Tube	Tube	Tube	Tube
Do [mm]	63	80	108	D1103	132	200
Wall Thickness [mm]	1.9	2.5	4.0	3.2	4.0	4.0
Shipping Length [mm]	5000	5000	5000	5000	5000	5000
Weight [kg/m]	0.510	0.910	1.830	1.500	2.250	3.450

	1.4215.2.00	1.4225.2.00	1.3220.3.00	1.3250.3.00	1.4215.4.00	1.4225.4.00	1.4240.4.00	1.3232.5.00	1.3232.5.00	1.3260.5.00	1.3270.5.00
Type	Bend	Bend	Bend	Bend	Bend	Bend	Bend	Bend	Bend	Bend	Bend
Do [mm]	63	63	80	80	90	90	90	108	108	108	108
Wall Thickness [mm]	1.9	1.9	2.5	2.5	2.0	2.0	2.0	4.0	4.0	4.0	4.0
Radius [mm]	300	550	500	800	300	550	750	650	800	1000	1500
Weight [kg/pc]	0.325	0.510	0.840	1.240	0.530	0.820	1.065	2.235	2.525	3.240	4.680

	1.4232.N.00	1.4250.N.00	1.3232.7.00	1.3250.7.00	1.3260.7.00	1.4250.V.00	1.4266.V.00	1.4275.V.00
Type	Bend	Bend	Bend	Bend	Bend	Bend	Bend	Bend
Do [mm]	110T	110T	132	132	132	200	200	200
Wall Thickness [mm]	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0
Radius [mm]	650	800	650	800	1000	800	1250	1800
Weight [kg/pc]	1.83	2.19	2.497	3.420	3.985	5.690	7.470	11.390

	1.4160.2.00	1.3160.3.00	1.4160.4.00	1.3160.7.00	1.4160.V.00	1.4160.W.00
Type	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
Do [mm]	63	80	90	132	200	315
Wall Thickness [mm]	1.9	2.5	2.0	4.0	4.0	6.2
Length [mm]	80	80	110	150	300	300
Weight [kg/pc]	0.040	0.070	0.090	0.360	1.220	2.810

Other sizes on request.

We reserve the right of changes!

1.4411.x.00 / 1.4632.6.00 / 1.4650.T.00

Tube / Bend PMMA



Material: PMMA
Colour: Crystal clear

Meet the standards:
 DIN6660 and DIN8061/62

Item No.	1.4411.6.00	1.4411.N.00	1.4411.T.00
Type	Tube	Tube	Tube
Do [mm]	110	110T	160
Wall Thickness [mm]	2.3	3.0	3.2
Shipping Length [mm]	2000	2000	2000
Weight [kg/m]	1.090	1.199	2.210

Item No.	1.4632.6.00	1.4650.T.00
Type	Bend	Bend
Do [mm]	110	160
Wall Thickness [mm]	2.3	3.0
Radius [mm]	650	800
Weight [kg/pc]	1.500	3.230

Other sizes on request.

We reserve the right of changes!

1.4110.W.00 / 1.4250.W.00 / 1.4160.W.00

Tube / Bend / Sleeve Silver Grey



Material: PVC-U

Colour: RAL 7001 silver grey

Meets the standards: DIN6660 and DIN8061/62

Item No.	1.4110.W.00	1.4250.W.00	1.4160.W.00
Type	Tube	Bend	Sleeve
DN [mm]	315	315	315
Wall Thickness [mm]	6.2	6.2	6.2
Shipping Length [mm]	5000	1000	300
Weight [kg/m]	9.350	17.480	2.810

Other sizes on request.

We reserve the right of changes!

1.5510.x.00 / 1.5620.x.xx / 1.5640.4.00 / 1.5632.x.00 / 1.5650.x.xx /
 1.5660.7.00 / 1.5665.T.00

Tube / Bend Stainless Steel



Bend Stainless Steel

Material: Stainless steel

Item No.	1.5510.3.00	1.5510.4.00	1.5510.5.00	1.5510.6.00	1.5510.7.00	1.5510.T.00
Type	Tube	Tube	Tube	Tube	Tube	Tube
Do [mm]	80	90	104	109,4	128	157,6
Wall Thickness [mm]	1.8	2.0	2.0	2.0	2.0	2.0

Item No.	1.5620.3.00	1.5620.3.0G	1.5640.4.00	1.5632.5.00	1.5650.5.00
Type	Bend	Bend	Bend	Bend	Bend
Annealed	no	yes	no	no	no
Do [mm]	80	80	90	104	104
Wall Thickness [mm]	1.8	1.8	2.0	2.0	2.0
Radius [mm]	550	550	750	650	800

Item No.	1.5632.6.00	1.5632.6.0G	1.5650.6.00	1.5632.7.00	1.5660.7.00
Type	Bend	Bend	Bend	Bend	Bend
Annealed	no	yes	no	no	no
Do [mm]	109,4	109,4	109,4	128	128
Wall Thickness [mm]	2.0	2.0	2.0	2.0	2.0
Radius [mm]	650	650	800	650	1000

Item No.	1.5650.T.00	1.5650.T.0G	1.5665.T.00
Type	Bend	Bend	Bend
Annealed	no	yes	no
Do [mm]	157,6	157,6	157,6
Wall Thickness [mm]	2.0	2.0	2.0
Radius [mm]	800	800	1200

Other sizes on request.

We reserve the right of changes!

1.4410.x.00 / 1.3410.x.00 / 1.4410.x.00 / 1.4525.2.00 / 1.3550.5.00 /
1.4532.6.00 / 1.3532.7.00 / 1.4550.x.00
Tube / Bend Transparent



Two Tubes and two Bends in different Dimensions

Material: PVC-U
Colour: Transparent

Meets the standards:
DIN6660 and DIN8061/62

Item No.	1.4410.2.00	1.4410.4.00	1.3410.5.00	1.4410.6.00	1.3410.7.00	1.4410.T.00	1.4410.V.00
Type	Tube	Tube	Tube	Tube	Tube	Tube	Tube
DN [mm]	63	90	108	110	132	160	200
Wall Thickness [mm]	1.9	2.0	4.0	2.3	4.0	3.2	4.0
Shipping Length [mm]	5000	5000	5000	5000	5000	5000	5000
Weight [kg/m]	0.510	0.770	1.830	1.090	2.250	2.210	3.450

Item No.	1.4525.2.00	1.3550.5.00	1.4532.6.00	1.3532.7.00	1.4550.T.00	1.4565.T.00	1.4550.V.00
Type	Bend	Bend	Bend	Bend	Bend	Bend	Bend
DN [mm]	63	108	110	132	160	160	200
Wall Thickness [mm]	1.9	4.0	2.3	4.0	3.2	3.2	4.0
Radius [mm]	550	800	650	650	800	1200	800
Weight [kg/pc]	0.510	2.525	1.330	2.745	3.230	4.610	5.690

Other sizes on request.

We reserve the right of changes!

1.4110.x.01 / 1.4215.x.01 / 1.4225.x.01 / 1.4232.6.01 / 1.4160.x.01

Tube / Bend / Sleeve White



Sleeve, Tube and two Bends with different Radiuses

Material: PVC-U
Colour: RAL 9003 signal white

Meet the standards:
 DIN6660 and DIN8061/62

Item No.	1.4110.4.01	1.4110.6.01
Type	Tube	Tube
DN [mm]	90	110
Wall Thickness [mm]	2.0	2.3
Shipping Length [mm]	5000	5000
Weight [kg/m]	0.770	1.090

	1.4215.4.01	1.4225.4.01	1.4225.6.01	1.4232.6.01
Type	Bend	Bend	Bend	Bend
DN [mm]	90	90	110	110
Wall Thickness [mm]	2.0	2.0	2.3	2.3
Radius [mm]	300	550	550	650
Weight [kg/pc]	0.530	0.530	1.160	1.330

	1.4160.4.01	1.4160.6.01
Type	Sleeve	Sleeve
DN [mm]	90	110
Wall Thickness [mm]	2.0	2.3
Length [mm]	110	110
Weight [kg/pc]	0.090	0.130

We reserve the right of changes!

Other sizes on request.



24 FITTINGS

SYSTEM H61

Tube Clamp	1.6050.2.00; 1.6050.3.00; 1.6050.4.00; 1.6050.5.01; 1.6050.6.00; 1.6050.7.00; 1.6051.T.00; 1.6051.V.00; 1.6051.W.00	167
Device Sleeve	1.6080.2.00; 1.6080.3.00; 1.6080.4.00; 1.6080.6.00; 1.6080.7.00; 1.6080.T.00	168
Wide-Banded Sleeve	1.6080.4.04; 1.6080.5.03; 1.6080.6.04; 1.6080.6.05; 1.6080.T.04; 1.6080.V.04	169
Expansion Joint PVC	1.6512.3.00; 1.6512.4.00; 1.6512.5.00; 1.6512.6.00; 1.6512.N.00; 1.6512.7.00; 1.6512.T.00; 1.6512.V.00; 1.6512.W.00; 1.6512.Z.00	170
Expansion Joint	1.6517.5.00; 1.6517.6.00; 1.6517.T.00	171
Inspection Opening	1.6521.2.00; 1.6521.3.00; 1.6521.4.00; 1.6521.5.00; 1.6521.6.00; 1.6521.7.00; 1.6521.T.00; 1.6521.V.00	172

1.6050.2.00 / 1.6050.3.00 / 1.6050.4.00 / 1.6050.5.01 / 1.6050.6.00 /
 1.6050.7.00 / 1.6051.T.00 / 1.6051.V.00 / 1.6051.W.00

Tube Clamp



Tube Clamp 1.6050.6.00



Tube Clamp 1.6051.T.00 with Hanger Bolt (8.1710.1.10)

Characteristics

- With a sound absorbing insert and resistant to ageing for DIN 4109
- With a safety lock for quick and practical installation
- With a rubber slightring
- Clamp is electrogalvanized
- The tube clamp can be used for two different applications:
 1. Slide-point: The tube can move through the tube clamp
 2. Fix-point: The tube can't move through the tube clamp (when removing the yellow distance ring)

- M10, Do160 (1.6051.T.00)
- M10, Do200 (1.6051.V.00)
- M10, Do315 (1.6051.W.00)

We reserve the right of changes!

Material: Steel

Available dimensions:

- M8, Do63 (1.6050.2.00)
- M10, Do80 (1.6050.3.00)
- M10, Do90 (1.6050.4.00)
- M10, for transport tube stainless steel 104 mm (1.6050.5.01)
- M10, Do110 (1.6050.6.00)
- M10, Do132 (1.6050.7.00)

1.6080.2.00 / 1.6080.3.00 / 1.6080.4.00 / 1.6080.6.00 / 1.6080.7.00 /
1.6080.T.00

Device Sleeve



Application

Connects stations and diverters with ensuing conveyor tube so the thermal expansion will not harm the station and the diverter

Material

Stainless steel

Has to be combined with

Textile tape (8.7904.0.03)

Different dimensions available

- 65 mm long, clamping range 63 – 65 mm (1.6080.2.00)
- 65 mm long, clamping range 78 – 80 mm (1.6080.3.00)
- 65 mm long, clamping range 90 – 92 mm (1.6080.4.00)
- 65 mm long, clamping range 108 – 112 mm (1.6080.6.00)
- 65 mm long, clamping range 132 – 135 mm (1.6080.7.00)
- 65 mm long, clamping range 158 – 162 mm (1.6080.T.00)

We reserve the right of changes!

1.6080.4.04 / 1.6080.5.03 / 1.6080.6.04 / 1.6080.6.05 / 1.6080.T.04 /
1.6080.V.04

Wide-banded Sleeve



Application

Sleeve for stainless steel tube installations

Material

Stainless steel

Has to be combined with

Textile tape (8.7904.0.03)

Available dimensions:

- 100 mm long, 89 – 91 mm (1.6080.4.04)
- 100 mm long, 102 – 104 mm (1.6080.5.03)
- 100 mm long, 109 – 111 mm (1.6080.6.04)
- 100 mm long, 114.3 mm (1.6080.6.05)
- 100 mm long, 157 – 159 mm (1.6080.T.04)
- 100 mm long, 196 – 200 mm (1.6080.V.04)

We reserve the right of changes!

1.6512.3.00 / 1.6512.4.00 / 1.6512.5.00 / 1.6512.6.00 / 1.6512.N.00 /
Expansion Joint PVC 1.6512.7.00 / 1.6512.T.00 / 1.6512.V.00 /
 1.6512.W.00 / 1.6512.Z.00



For

- Compensating the length extension of the tube due to temperature change

Characteristics

- Geared type
- Air-tight with O-ring sealing
- Can compensate a maximal tube expansion of 100 mm

Installation

- In the tube line in regular distances

Material

- PVC

Delivery Scope

- Expansion joint

Different dimensions available

Item No.	Do [mm]
1.6512.3.00	80
1.6512.4.00	90
1.6512.5.00	108
1.6512.6.00	110
1.6512.N.00	110T
1.6512.7.00	132
1.6512.T.00	160
1.6512.V.00	200
1.6512.W.00	315
1.6512.Z.00	500

We reserve the right of changes!

1.6517.5.00 / 1.6517.6.00 / 1.6517.T.00

Expansion Joint



For

- Compensating the length extension of the tube due to temperature change

Delivery Scope

- Expansion joint

Characteristics

- Bellow type
- Air-tight

Installation

- In the tube line in regular distances

We reserve the right of changes!

Material

- Stainless steel

Different dimensions available

Item No.	Do [mm]
1.6517.5.00	108
1.6517.6.00	110
1.6517.T.00	160

1.6521.2.00 / 1.6521.3.00 / 1.6521.4.00 / 1.6521.5.00 / 1.6521.6.00 /
1.6521.7.00 / 1.6521.T.00 / 1.6521.V.00

Inspection Opening



1.6521.T.00

For

- Maintenance access to the tube line (e.g. in case of stuck carriers, cleaning out water or anything leaked from carriers)

Characteristics

- Removable steel sleeves

Installation

- One pair of removable sleeves sits on both sides on a one meter piece of tube which will be taken out to have access to the tube inside

Material

- Stainless steel

Delivery Scope

- One pair of sleeves

Accessories

- Long-life textile adhesive tape (8.7904.0.03)

We reserve the right of changes!

Different dimensions available

Item No.	Do [mm]
1.6521.2.00	63
1.6521.3.00	80
1.6521.4.00	90
1.6521.5.00	104
1.6521.6.00	108/110
1.6521.7.00	132
1.6521.T.00	160
1.6521.V.00	200



25 ACCESSORIES FOR BLOWER CONNECTION

SYSTEM H61

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1.0850.6.02 / 1.0851.5.02 / 1.0852.5.02 / 1.0852.7.02 / 1.0852.T.02 /
1.0852.V.02

Kit External Air



1.0851.5.02 individual components



1.0851.5.02 assembled

For

- This set connects the air exhaust / intake of an end station to another location. This can be an air condition airduct, the outside of the building, a false ceiling or any kind of airduct
- If the station is delivered with a simple rubber flap, this set is installed instead of the flap

Characteristics

- The straight through tube has the diameter of the carrier, while the exit flange has the diameter of the air tube which is typically 110
- The exit flange has a non-return valve which will ensure that the air-flow can only pass through in one direction

Installation

- Over the station (refer to document E518)

Material: PVC-U, Sheet-steel, ABS

Colour: RAL 7011 iron grey

Delivery scope

- Every item shown on the picture left

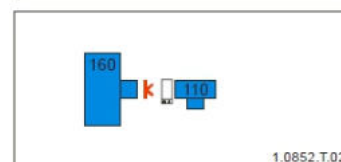
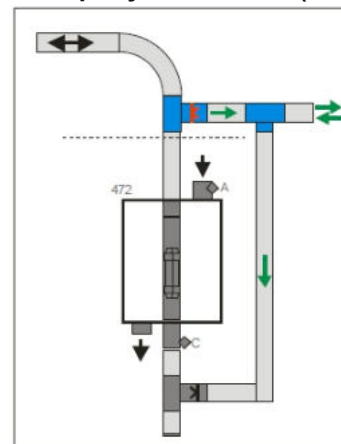
Optional

- Tube colour in transparent to see whether the non-return valve works properly

Available for dimensions:

Item No.	Do [mm]
1.0850.6.02	110/110
1.0851.5.02	108/80
1.0852.5.02	108/110
1.0852.7.02	132/110
1.0852.T.02	160/110
1.0852.V.02	200/110

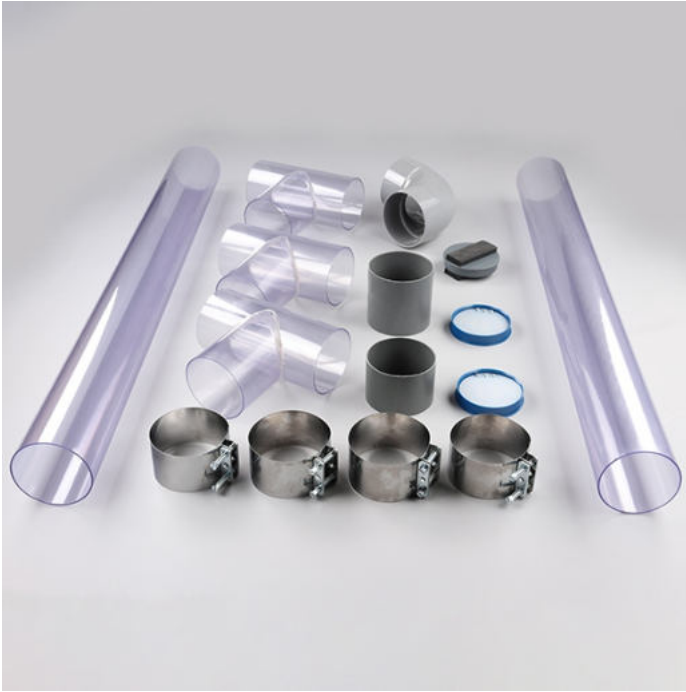
Exemplary installation (blue parts):



We reserve the right of changes!

1.2610.6.60

Bypass Horizontal



Individual Parts



Assembled

Delivery Scope

- Bypass

Option

- Dimensions:

Item no.	Do Air Tube	Do Tube
1.2610.5.30	80	108
1.2610.6.60	110	110
1.2610.7.60	110	132
1.2610.T.60	110	160
1.2610.T.T0	160	160
1.2610.V.60	110	200

We reserve the right of changes!

1.2610.T.60

Bypass Horizontal



Delivery Scope

- Bypass

Option

- Dimensions:

Item No.	Do Air Tube	Do Tube
1.2610.5.30	80	108
1.2610.6.60	110	110
1.2610.7.60	110	132
1.2610.T.60	110	160
1.2610.T.T0	160	160
1.2610.V.60	110	200

We reserve the right of changes!

1.0850.2.00 / 1.0850.3.00 / 1.0850.4.00 / 1.0850.5.00 / 1.0850.6.00 /
T-Piece With or Without Grid 1.0851.6.00 / 1.0852.7.00 / 1.0852.T.00 /
1.0852.T.01 / 1.0852.V.00 / 1.0852.V.01



T-piece with grid 1.0852.T.00

For

- To connect air exhaust / intake to the tube system

Operation

- Straight-through tube has the carrier diameter, the connection flange has the air diameter
- The air outlet has the shape of guidance bars to ensure that the carrier does not get stuck in the connection flange

Material: PVC-U

Colour: RAL 7011 iron grey

Delivery scope

- T-piece

Optional

- Colour: transparent

Available for dimensions:

Item No.	With Grid	Do [mm]
1.0850.2.00	Yes	63/63
1.0850.3.00	Yes	80/80
1.0850.4.00	Yes	90/90
1.0850.5.00	Yes	108/108
1.0850.6.00	Yes	110/110
1.0851.6.00	Yes	110/80
1.0852.7.00	Yes	132/110
1.0852.T.00	Yes	160/110
1.0852.T.01	No	160/110
1.0852.V.00	Yes	200/110
1.0852.V.01	No	200/110

We reserve the right of changes!

1.0900.6.02 / 1.0902.6.00

Non-Return-Valve



Non-return-valve 1.0900.6.02



Non-return-valve 1.0902.6.00

Non-return-valve 1.0900.6.02

For

- To control the air-flow direction
- Can be used to ensure that the air which was flowing through the tube system is exhausted from the building e.g.

Characteristics

- The shape of the blue frame is optimized to low noise, low friction, long life and pressure loss
- Can be used up to an air speed of 20 m/s

Installation

- Sits in the air tube
- We recommend to have a transparent tube left and right of the NRV so the maintenance can check whether the NRV works properly

Material: ABS, rubber

Dimensions: Do110

Non-return-valve on bend 1.0902.6.00

For

- Exhaust the inbound air at an end station

Operation

- Laying on the tube by gravity and bend up under air pressure

Installation

- At 30 degrees from the top end of the bend

Material: Rubber

Colour: White

Dimensions: Used for tube sizes Do63 – Do200

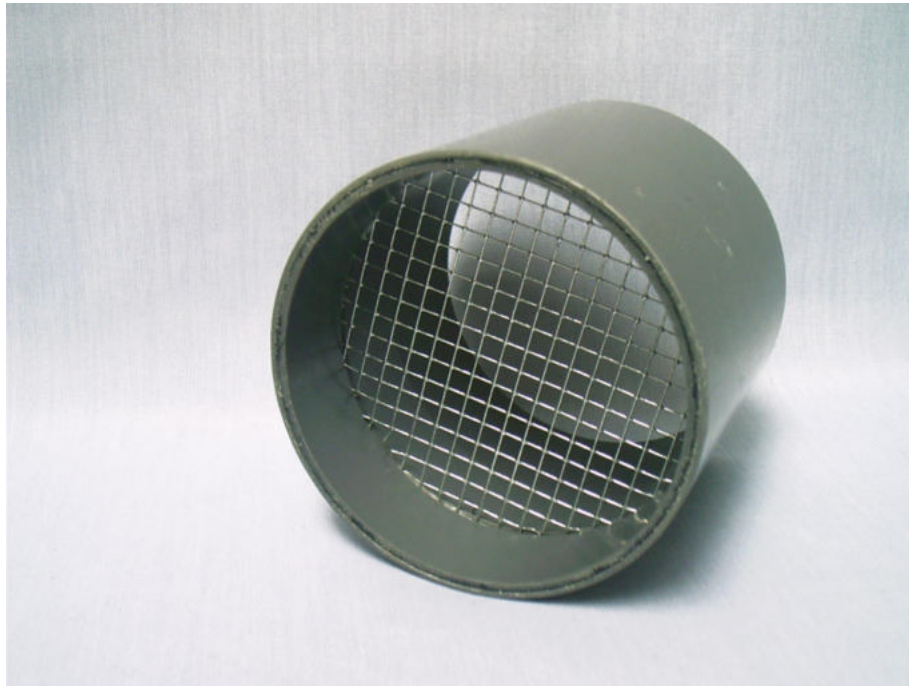
Delivery scope

- Rubber valve and installation jig

We reserve the right of changes!

1.6541.3.00 / 1.6541.6.00 / 1.6541.T.00

Air Inlet Grid



For

- Preventing animals to get into or blocking the air-inlet/exhaust of a tube system

Characteristics

- Galvanized 6 mm steel grid

Installation

- Sits on the air-inlet/exhaust of a tube system

Material

- PVC, galvanized steel

Delivery Scope

- Air inlet grid sitting in a PVC tube

We reserve the right of changes!

Different dimensions available

Item No.	Do [mm]	Pitch [mm]
1.6541.3.00	80	6
1.6541.6.00	110	6
1.6541.T.00	160	6

1.6550.3.00

Air Tube Bend PVC Grey



For

- Tube section between blower and system start – carriers can not pass through this bend

Characteristics

- With in-built sleeves for easy connection with a straight air tube

Installation

- Cold welding onto the straight tube

Material: PVC-U

Colour: RAL 7011 iron grey

Dimensions

- Degree: 87°
- Tube: Do80

Weight: 0.17 kg

Delivery Scope

- Air tube bend

Optional

- Product with 45° (1.6554.3.00)

We reserve the right of changes!

1.6550.6.00

Air Tube Bend PVC Grey



For

- Use in tube section between blower and system start (carriers can not pass through this bend)

Characteristics

- With in-built sleeves for easy connection with a straight air tube

Installation

- Cold welding onto the straight tube

Material: PVC-U

Colour: RAL 7011 iron grey

Dimensions

- Degree: 90°
- Tube: DN110

Weight: 0.5 kg/pc

Delivery Scope

- Air tube bend

Optional

- Product with 45° (1.6554.6.00)
- Product material: stainless steel 90° (1.6560.6.00)
- Product material: stainless steel 45° (1.6564.6.00)

We reserve the right of changes!

1.6556.T.00

Air Tube Bend PVC



For

- Use in tube section between blower and system start (carriers can not pass through this bend)
- Reducing the heat-up of the material at high air speeds

Characteristics

- The big curve radius of 300 mm will reduce the heat-up of the material at high air speeds

Installation

- Cold welding onto the straight tube
- Separate sleeves are needed for connecting

Material: PVC-U

Colour: RAL 7011 iron grey

Dimensions

- Degree: 90°
- Tube: Do160
- Wall thickness: 3.2 mm
- r = 300 mm

Weight: 1.41 kg/pc.

Delivery Scope

- Air tube bend

We reserve the right of changes!

1.6686.3.00 / 1.6687.6.00 / 1.668T.6.00 / 1.668T.7.00 /
 1.668V.6.00 / 1.668V.T.00

Reducer PVC



For

- Connecting tubes with different diameters

Characteristics

- Concentric ring

Installation

- Cold welded connection between tubes and ring

Material

- PVC

Delivery Scope

- Reducer PVC

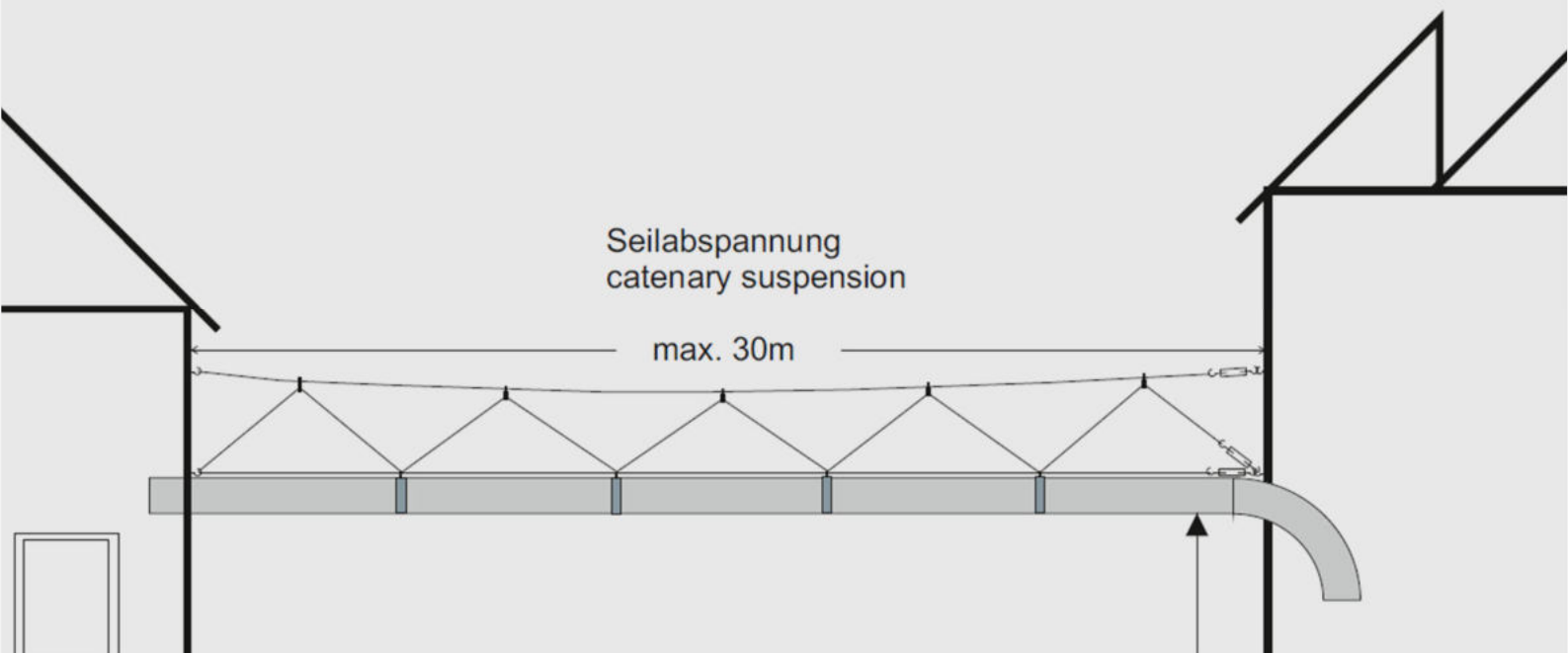
Optional

- Other dimensions
- With or without flange

We reserve the right of changes!

Different dimensions available

Item No.	Di [mm]	Do [mm]
1.6686.3.00	80	105
1.6687.6.00	110	124
1.668T.6.00	110	153
1.668T.7.00	132	153
1.668V.6.00	110	192
1.668V.T.00	160	192



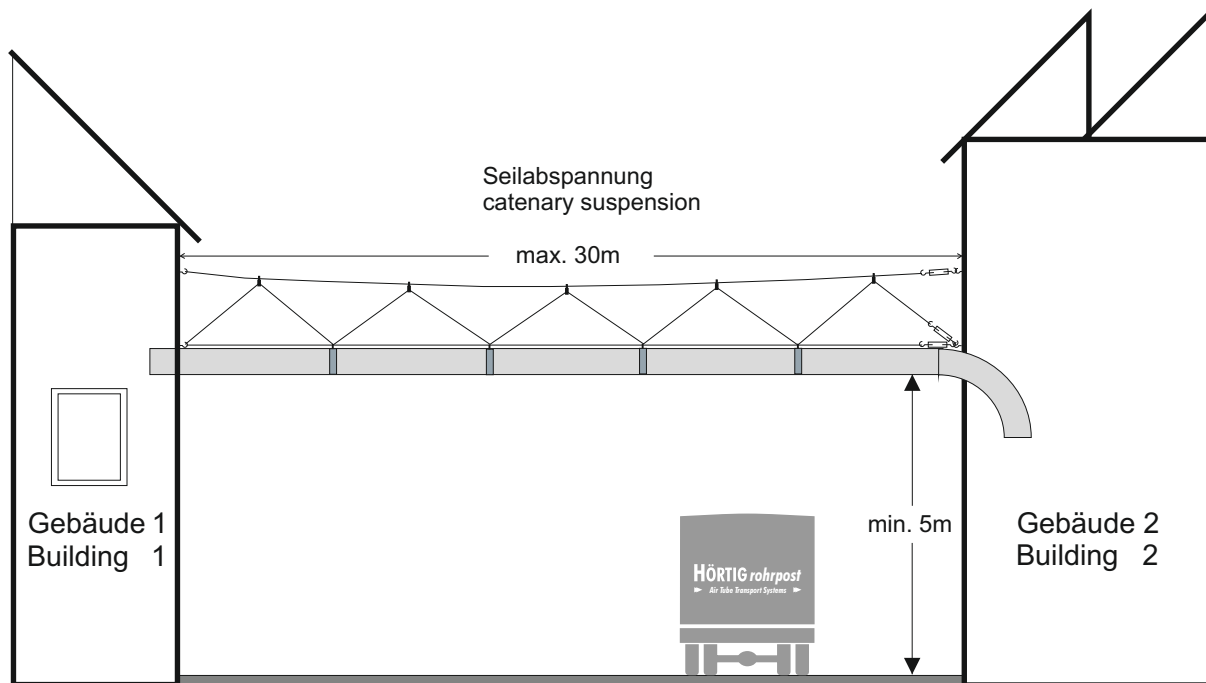
26 OUTDOOR TUBING

SYSTEM H61

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1.6801.0.00 / 1.6801.0.01

Overhead Line Installation Set



For

- Installing a tube line overhead between two buildings

Installation

- Between two buildings
- Conveyor tube is attached to the rope construction

Material

- Galvanized steel

Dimensions

- Length: 25 m (1.6801.0.00)
- Length: 1 m (1.6801.0.01)

Delivery Scope

- Basic installation set sufficient for 25 m building distance: dowels, hooks and rope (1.6801.0.00)
- Extension set for each extension by 1 m length (1.6801.0.01)

Optional

- Material: stainless steel
- Thermal insulation
- Heating of the tube inside the thermal insulation

We reserve the right of changes!

1.6803.0.00 / 1.6803.0.01 / 7.4004.0.00 / 7.4004.0.10 / 7.4004.0.15 /
7.4004.0.20 / 7.4003.0.00

Heating of Tube Lines



*Basic set with indoor
temperature sensor 1.6803.0.00*



Aluminium foil 7.4003.0.00



Heating cable 7.4004.0.00

For

- Heating the overhead tube lines that are installed between two buildings
- Prevention of the tube line to built ice on the inside so carriers won't get stuck

Characteristics

- Needs extra power supply to heat the cable

Installation

- Heating cable will be fixed on the tube with the aluminium foil

Options

- Temperature sensor can be in- or outdoor
- The cable type has to be chosen in dependency of the expected temperature and the length of the tube

Products for heating of tube lines:

- Basic set per 25 m segment with indoor temperature sensor (1.6803.0.00)
- Basic set per 25 m segment with outdoor temperature sensor (1.6803.0.01)
- Heating cable 25 W (7.4004.0.00)
- On wall plug and connection box (7.4004.0.10)
- T-terminator (7.4004.0.15)
- On wall connection set (7.4004.0.20)
- Aluminium foil (7.4003.0.00)

We reserve the right of changes!

1.4110.x.03 / 1.4261.x.xx

Underground Tube / Bend



Material: PEHD
Colour: Royal blue

Item No.	1.4110.4.03	1.4110.6.03	1.4110.T.03
Type	Tube	Tube	Tube
Do [mm]	90	110	160
Wall Thickness [mm]	12.0	9.8	23.2
External Diameter [mm]	110	125	200
Shipping Length [mm]	5000	5000	5000
Weight [kg/m]	3.612	3.740	12.493

Item No.	1.4261.4.15	1.4261.4.30	1.4261.4.45	1.4261.4.00	1.4261.6.15	1.4261.6.30
Type	Bend	Bend	Bend	Bend	Bend	Bend
Do [mm]	90	90	90	90	110	110
Wall Thickness [mm]	12.0	12.0	12.0	12.0	9.8	9.8
External Diameter [mm]	110	110	110	110	125	125
Radius [mm]	1000	1000	1000	1000	1000	1000
Angle [°]	15	30	45	90	15	30
Weight [kg/pc]	2.168	2.998	3.973	6.863	2.244	3.104

Item No.	1.4261.6.45	1.4261.6.00	1.4261.T.15	1.4261.T.30	1.4261.T.45	1.4261.T.00
Type	Bend	Bend	Bend	Bend	Bend	Bend
Do [mm]	110	110	160	160	160	160
Wall Thickness [mm]	9.8	9.8	23.2	23.2	23.2	23.2
External Diameter [mm]	125	125	200	200	200	200
Radius [mm]	1000	1000	1200	1200	1200	1200
Angle [°]	45	90	15	30	45	90
Weight [kg/pc]	4.114	7.106	7.670	11.590	15.520	26.550

Other sizes on request.

We reserve the right of changes!

7.9900.0.30 / 7.9900.0.31 / 7.9900.0.32 / 8.7200.0.03 / 8.7200.0.04

**Electrofusion Machine / Pipe Scraper Tool / Mounting Set /
Special Cleaner / Surface Activator**



Electrofusion Machine 7.9900.0.30

Pipe Scraper Tool 7.9900.0.31

Electrofusion machine (7.9900.0.30)

- For tube PEHD
- 230 V
- Weight: 21.550 kg/pc.
- Available for leasing

Pipe scraper tool (7.9900.0.31)

- For tube PEHD
- Available for leasing

Mounting set NW90/110/160 (7.9900.0.32)

- 1 silver marker
- 1 hand scraper
- 1 deburrer
- 1 fan grinder
- 2 caps
- 2 wood blocks with tube guidance
- 4 tube clamps 9.3304.0.80

Special cleaner (8.7200.0.03)

- For tube PEHD

Surface activator (8.7200.0.04)

- Clean primer
- Volume: 500 ml

We reserve the right of changes!

26 REFERENCES



DRK Kliniken Berlin

Klinikum Nürnberg
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Klinikum Kulmbach
mit Fachklinik Stadtsteinach



LAMONGAN
HOSPITAL



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Stuttgart

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GESUNDHEITZENTREN
RHEIN-NECKAR gGmbH



Sana Klinikum Hof



Josefinum
KJF Fachklinik

Klinikum
Crailsheim

Landkreis Schwäbisch Hall Klinikum gGmbH



Kreisklinik Wolftrathausen

Klinikum
Fichtelgebirge

Klinikum
Garmisch-Partenkirchen

KLINIKUM
Passau

26 REFERENCES



Case Study
Car
Production



Case Study
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26 REFERENCES



Case Study Le
Bon Marché

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