

# RFID TECHNOLOGY



The circular graphic displays several examples of RFID tags. At the top is a standard 1D barcode tag with the number 1500191880. Below it are two tags with QR codes and unique identifiers: FA0223220110 000000000046 and FA0224035660 000000285DB5. Other tags show the Thermotex logo and some have circular patterns. A hand is shown pointing towards the bottom right of the circle, where a white RFID symbol (three curved lines) and the word 'RFID' are prominently displayed.

**RFID**

**UHF and HF transponders  
Reading Systems**



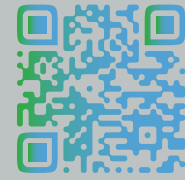
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# UHF FOR BIG VOLUMES

RFID technology (Radio-Frequency Identification) enables contactless identification of objects via radio waves. A distinction is made between HF technology (High Frequency) for shorter distances and precise applications, and UHF technology (Ultra High Frequency), which is used for longer ranges and higher data volumes.

Compatible reader systems communicate with these transponders and open up a wide range of application possibilities.

With our THERMOTEX products, we are ready for the future.

## Your benefits:

- ▶ Fully automated textile identification
- ▶ Unique identification number
- ▶ Contactless reading
- ▶ Single, stacked, and bulk reading
- ▶ Suitable for heat-sealing or sewing in
- ▶ Suitable for industrial ironing
- ▶ Industrial-wash resistant





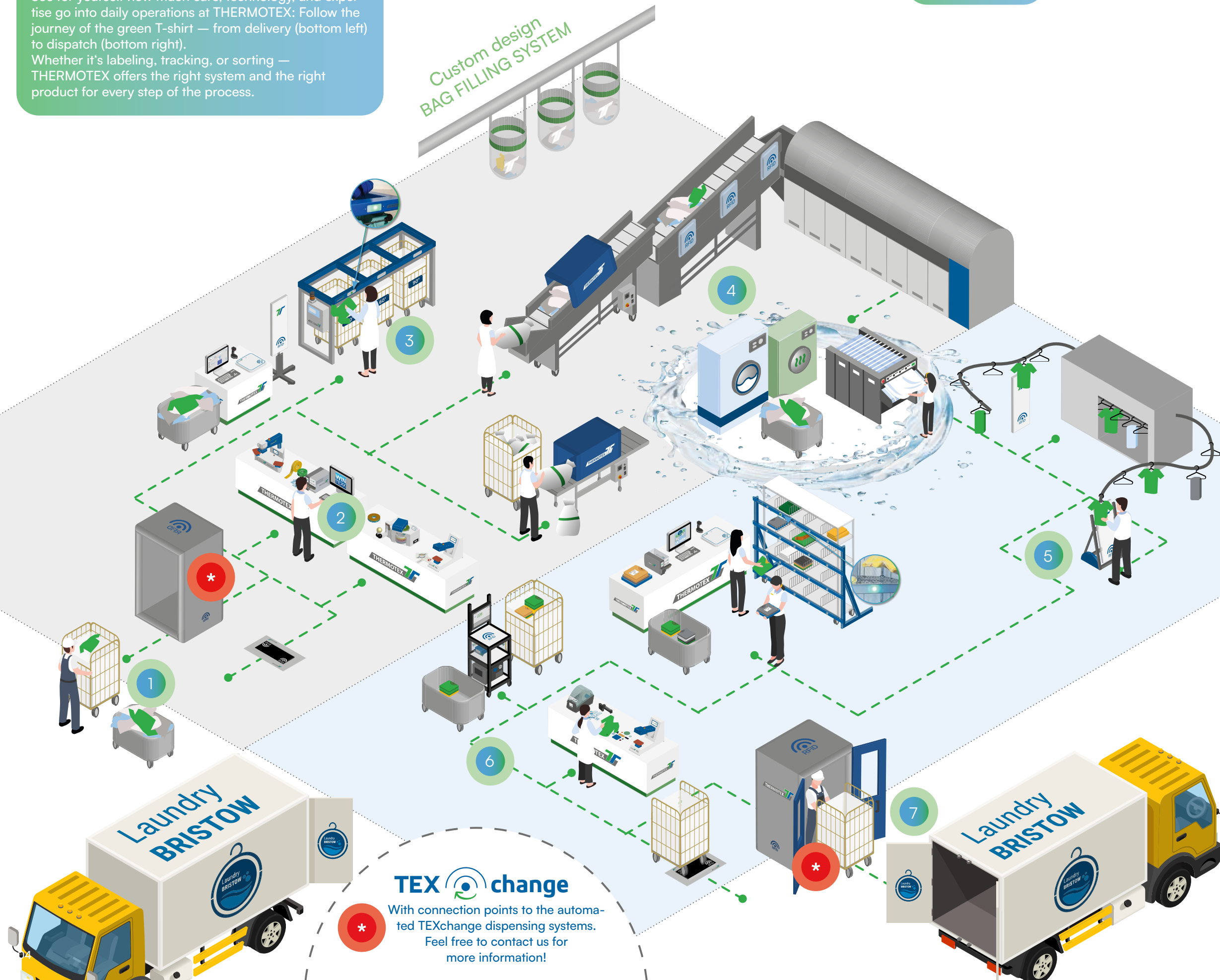
## A small shirt on a big journey

See for yourself how much care, technology, and expertise go into daily operations at THERMOTEX: Follow the journey of the green T-shirt — from delivery (bottom left) to dispatch (bottom right). Whether it's labeling, tracking, or sorting — THERMOTEX offers the right system and the right product for every step of the process.

Data capture via barcode or RFID throughout the entire washing process



Custom design  
BAG FILLING SYSTEM



### 1 LAUNDRY INTAKE

- ▶ Mesh containers, laundry transport trolleys
- ▶ Resident laundry bags, container covers (inner & outer), laundry bags and nets
- ▶ UHF gate, TEXchange connection point, floor antenna

### 2 LABELING

- ▶ Heat-sealing machines
- ▶ Thermal transfer printing systems
- ▶ Labels and emblems
- ▶ RFID technology: transponders, reader systems
- ▶ Software: WinTexx 5, Saturn 3

### 3 SORTING — INTAKE

- ▶ RFID technology: HF / UHF transponders
- ▶ Reader systems:
  - HF tunnel antenna
  - Table reader system
  - Panel antenna (ceiling-mounted or freestanding)
  - Picking trolley (HF or UHF)
  - Scanner
  - Incline conveyor (HF or UHF)
- ▶ IN-SorTexx sorting system (with LED display)
- ▶ Software: Saturn 3

### 4 WASHING PROCESS

- ▶ Laundry transport trolleys
- ▶ Washing, drying, industrial ironing

### 5 SORTING — OUTGOING

- ▶ RFID technology: HF / UHF transponders
- ▶ Reader systems:
  - Table reader system
  - Panel antenna (ceiling-mounted or freestanding)
  - Picking trolley (HF or UHF)
  - Scanner
- ▶ OUT-SorTexx sorting aid (with LED display, optional confirmation function)
- ▶ Software: Saturn 3

### 6 FOLDING AND REPAIRING

- ▶ RFID technology: HF / UHF transponders, Table antennas, handheld scanners
- ▶ Thermal transfer printing systems and supplies
- ▶ Heat-sealing machines and repair emblems

### 7 LAUNDRY DISPATCH

- ▶ Mesh containers, laundry transport trolleys
- ▶ Resident laundry bags, container covers (inner & outer), laundry bags and nets
- ▶ UHF box, TEXchange connection point, floor antenna

**TEX change**

With connection points to the automated TEXchange dispensing systems. Feel free to contact us for more information!



For Heat-sealing

Our transponders for heat-sealing offer a robust solution for the simple and fast identification of textile products. They are characterized by their high durability.



F10 58 x 18.5 mm • Thickness: 0.5 mm < 2.5 mm in chip area



| Article | Blank<br>Item no. 67631 | With EPC number<br>Item no. 67582 | With logo and EPC number<br>Item no. 67966 | With Barcode<br>Item no. 67967 | With logo<br>Item no. 67632 |
|---------|-------------------------|-----------------------------------|--------------------------------------------|--------------------------------|-----------------------------|
|---------|-------------------------|-----------------------------------|--------------------------------------------|--------------------------------|-----------------------------|

F20 70 x 15 mm • Thickness: 1.7



| Article | Blank<br>Item no. 69349 |
|---------|-------------------------|
|---------|-------------------------|

- ▶ **Application areas:** Tracking of workwear, flat linen, and institutional laundry, e.g., in laundry intake/dispatch or cabinet and room inventory
- ▶ **Reading method:** Bulk reading, e.g., in mesh trolleys
- ▶ **Reading range:** Up to 6 meters
- ▶ **Compatibility:** All common UHF reading systems such as Box, Gate, Shelf, Fix Shelf, Universal, Compact, TSL
- ▶ **Application method:** Sewing in / heat-sealing

F10 TRANSPONDER ON ROLL

- ▶ All F10 variants available on roll
- ▶ Especially suitable for garment manufacturers
- ▶ Reading range: up to 6 meters
- ▶ Enables automated merging of transponders with, for example, flat linen



Our UHF stick transponders are industrial-wash resistant and suitable for industrial ironing!

For Overpatching

Our transponders for overpatching ensure reliable and long-lasting identification. The transponders, which are attached using a patch, gain an additional protective layer through overpatching.



F12 36 x 11 mm • Thickness: 0.5 mm • 2.4 mm in chip area

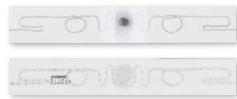


| Article                 | Application area                   | Reading method            | Reading range | Compatible with                             | Application method                                                                        |
|-------------------------|------------------------------------|---------------------------|---------------|---------------------------------------------|-------------------------------------------------------------------------------------------|
| Blank<br>Item no. 68163 | Identification of resident laundry | Single or stacked reading | Up to 1 meter | Shelf, Fix Shelf, hand-held reader, Compact | Overpatching with a labeling tag — we recommend FixTexx in sizes 53 x 19 mm or 53 x 32 mm |
| Blank<br>Item no. 70268 |                                    |                           |               |                                             |                                                                                           |

F22 36 x 11 mm • Thickness: 1.5 mm



F11 70 x 11 mm • Thickness: 0.5 mm < 2.4 mm in chip area



| Article | Item no. 68108 |
|---------|----------------|
|---------|----------------|

F19 70 x 9 mm • Thickness: 2.5 mm



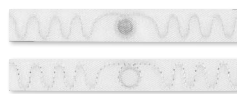
| Article | Item no. 70007 |
|---------|----------------|
|---------|----------------|

F21 75 x 12 mm • Thickness: 1.9 mm



| Article | Item no. 69606 |
|---------|----------------|
|---------|----------------|

F31 74 x 10 mm • Thickness: 1.6 mm



| Article | Item no. 70014 |
|---------|----------------|
|---------|----------------|

- ▶ **Application areas:** Tracking of workware, flat linen, and institutional laundry — e.g., in laundry intake/dispatch or during cabinet and room inventory
- ▶ **Reading method:** Bulk reading, e.g., in mesh trolleys
- ▶ **Reading range:** Up to 6 meters
- ▶ **Compatible with:** All common UHF reading systems such as Box, Gate, Shelf, Fix Shelf, Universal, Compact, TSL
- ▶ **Application method:** Sewing in (primarily into the hem of a textile)



Our UHF stick transponders are industrial-wash resistant and suitable for industrial ironing!

For Sewing in

Our transponders for sewing in are the ideal choice for seamless integration into textile products. They provide a solution for product authentication without compromising comfort or aesthetics.



F13 70 x 25 mm • Thickness: 2.4 mm



| Article | Blank<br>Item no. 70370 | With EPC number<br>Item no. 70371 | With logo und EPC number<br>Item no. 70373 | With Barcode<br>Item no. 70375 |
|---------|-------------------------|-----------------------------------|--------------------------------------------|--------------------------------|
|---------|-------------------------|-----------------------------------|--------------------------------------------|--------------------------------|

- ▶ **Application areas:** Tracking of institutional laundry, workwaer, and flat linen — e.g., in cleanroom environments, laundry intake/dispatch, or inventory of cabinets and rooms
- ▶ **Reading method:** Bulk reading, e.g., in mesh trolleys
- ▶ **Reading range:** Up to 6 meters
- ▶ **Compatible with:** All common UHF reading systems such as Box, Gate, Shelf, Fix Shelf, Universal, Compact, TSL
- ▶ **Application method:** Sewing on (as a flag or all-around) and sewing in



- UHF transponder for mounting
- ▶ Robust and durable transponder
  - ▶ Waterproof

# UHF TRANSPONDER FOR LABELING TRANSPORT SYSTEMS

## UHF container transponder C2

- ▶ Dimensions (L x W x H): 52 x 16 x 8.5 mm
- ▶ Max. read/write distance: 2 m
- ▶ For screwing onto containers

|    |                                                                  |                |
|----|------------------------------------------------------------------|----------------|
| C2 | Blank                                                            | Item no. 65690 |
| C2 | With laser marking                                               | Item no. 67783 |
| C2 | With laser marking and mounting bracket for cable tie attachment | Item no. 25053 |



C2 blank



C2 with laser engraving and mounting bracket

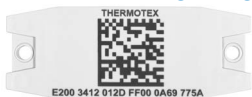


## UHF container transponder C3

- ▶ Dimensions (L x W x H): 95 x 35 x 8 ± 0.4 mm
- ▶ Max. read/write distance: 5 m
- ▶ Mounting on metal using rivets, screws, or industrial adhesive

|    |                                                                  |                |
|----|------------------------------------------------------------------|----------------|
| C3 | With laser engraving                                             | Item no. 68872 |
| C3 | With laser marking and mounting bracket for cable tie attachment | Item no. 24935 |

C3 with laser engraving



C3 mounted on the underside of the mesh container



# UHF SELF-ADHESIVE LABELS

- ▶ Thermal transfer printable
- ▶ Adhesive: permanent
- ▶ Material: white PET, blank
- ▶ Format: on roll

Formats and versions available on request

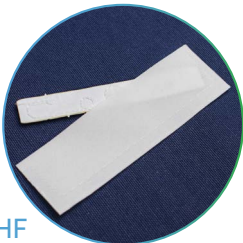


# ACCESSORY: WOVEN TRANSPONDER POUCH

- ▶ Available in various pouch sizes
- ▶ Quality: taffeta
- ▶ Tubular weave
- ▶ Heat-cut edges
- ▶ For sewing in



For F10 transponders  
Item no. 67992



For UHF sew-in transponders  
Item no. 70116

Custom weaving available

# UHF-BOX

The UHF box version with self-opening and self-closing doors is the perfect solution for an optimized workflow. Your chipped textiles are captured efficiently and read without error. During the reading process, the doors automatically lock and reopen only once all textiles have been successfully recorded.

## General data

- ▶ **Application area:** Identification of laundry items in mesh containers at laundry intake/dispatch
- ▶ **Transponder types:** F10, F11, F20 F21, F19, F31, F13
- ▶ **Reading method:** Bulk reading
- ▶ **Fast reader control technology** with intelligent antenna illumination ensures time-optimized data capture
- ▶ **Interfaces:** Ethernet, USB, RS 232
- ▶ **Optional:** With automatic door drive



## UHF-Box suitable for mesh containers

- ▶ **External dimensions (W x D x H):** 1,500 x 1,000 x 2,260 mm
- ▶ **Internal dimensions (W x D x H):** 1,033 x 900 x 1,986 mm
- UHF-Box with one double door      Item no. 21595
- UHF-Box with two double doors      Item no. 21832

## UHF Box L suitable for Euro pallets

- ▶ **External dimensions (W x D x H):** 1,500 x 1,500 x 2,260 mm
- ▶ **Internal dimensions (W x D x H):** 1,033 x 1,400 x 1,986 mm
- UHF box with one double door      Item no. 21000
- UHF box with two double doors      Item no. 21822



## UHF Box XL suitable for Euro pallets including pallet jack access

- ▶ **External dimensions (W x D x H):** 1,500 x 1,900 x 2,260 mm
- ▶ **Internal dimensions (W x D x H):** 1,033 x 1,800 x 1,986 mm
- UHF-Box with one double door      Item no. 21833
- UHF-Box with two double doors      Item no. 21834

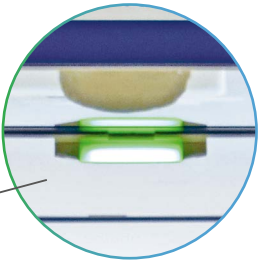
More information about the UHF gate available on request  
Item no. 21587

# UHF GATE

Suitable for bulk reading

- For bulk reading of various types of laundry in the trolley (e.g. mops, bathrobes, dust control mats, flat linen, workwear, contract laundry)
- Reading during passage through the gate
- Prevents losses, resulting in cost savings
- For identification and tracking of trolleys and transport equipment
- Can be used in addition to HF and LF technology

For reading during passage



Status indicator for reading status  
green = "counting process completed"

### General data

- Application area: Container identification in laundry intake (limited in laundry dispatch)
- Transponder use: All UHF transponders
- Reading: Bulk reading
- Interface: Ethernet, USB, RS-232
- Fast reader control technology with intelligent antenna illumination ensures time-optimized detection
- High container throughput thanks to intelligent light indicator
- Suitable for Euro pallets

### Technical data

- External dimensions (W x H x D):  
1,500 x 2,260 x 1,900 mm
- Internal dimensions (W x H x D):  
1,033 x 1,986 x 1,800 mm

Item no. 21587

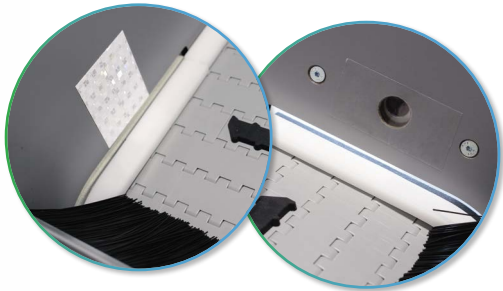
UHF conveyor with  
fixed shelf antenna

# UHF-SYSTEM FIX SHELF

UHF special constructions, for example UHF inclined conveyor



The inclined conveyor is a transport belt for transfer to a loading conveyor while simultaneously detecting the laundry items. The laundry item including the transponder is read loosely in transit by the antenna and passed on to the next processing station.



### Optional

Light sensor barrier for the automatic start of the conveyor belt

# UHF PICKING TROLLEY

The mobile and stationary solution

- The illustrated system includes:
  - UHF antenna
  - UHF reader
  - Power strip, 4-way
  - PC mounting bracket
  - 2 fixed and swivel castors with brake, Ø125 mm, rubber-coated

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Areas of application   | At various stages of the process, mobile or stationary |
| Dimensions (L x W x H) | 600 x 600 x 1400 mm                                    |
| Interface              | USB HID, USB Virtuall-Com, RS232, Ethernet             |
| Transponder            | All UHF transponders                                   |

Item no. 20488



More Information:





# UHF-SYSTEM SHELF: THE FLEXIBLE SOLUTION

With our shelf antenna, no requirement goes unmet. Whether in a standard system or a custom-built solution — you'll find exactly what you need here!

|                            |                                |
|----------------------------|--------------------------------|
| Application area           | Desk workstation               |
| Reading method             | Single and stacked reading     |
| Transponder types          | All UHF transponders           |
| Antenna dimensions (LxWxH) | 400 x 400 x 30 mm              |
| Interface                  | USB, optional: Ethernet, RS232 |

Shelf (1)  
Fix Shelf (2)

Item no. 22276  
Item no. 21689



# UHF-SYSTEM LONG-RANGE UNIVERSAL

And industrial solution Universal I



**Capture entire rooms:**  
Stationary scanning of chipped textiles and objects is a thing of the past. Use our UHF Long-Range Universal system to identify entire rooms. Depending on the application — for example, in industrial environments — up to 8 antennas can be connected to the control cabinet.

**Universal unit in control cabinet**  
For industrial use with up to eight antennas



- ▶ Up to 4 antennas can be connected in the standard system
- ▶ Enables room-level identification
- ▶ Special industrial solution: 4 to 8 external SAT antennas (depending on application) with Universal I control cabinet
- ▶ Standard system consists of:
  - UHF long-range reader
  - 1 to 4 external SAT antennas (depending on application)
- ▶ UHF long-range reader integrated into the control cabinet

|                            |                                             |
|----------------------------|---------------------------------------------|
| Application area           | Flexible integration into laundry processes |
| Reading method             | Single, stacked, and bulk reading           |
| Transponder types          | Compatible with all UHF transponders        |
| Antenna dimensions (LxWxH) | 130 x 130 x 39 mm                           |
| Interface                  | USB, Ethernet, RS232                        |

# UHF IRONING STATION FIX SHELF

For sorting units

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Application area           | For reading hanging garments in a conveyor system              |
| Reading method             | Single and stacked reading                                     |
| Transponder types          | All UHF transponders                                           |
| Antenna dimensions (LxWxH) | 1,472 x 10 x 486mm (Housing independent of number of antennas) |
| Interface                  | Ethernet                                                       |

Item no. 23820



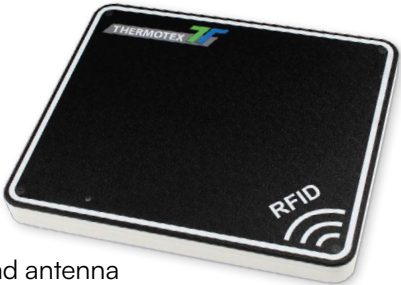
- Consists of:
- UHF reader
  - UHF Fix Shelf antennas (1-4, depending on configuration)
  - Flexible mounting bracket

# UHF-SYSTEM COMPACT PLUS

Desk workstation for laundry sorting in laundry dispatch

|                            |                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------|
| Application area           | Desk workstation for laundry sorting in laundry dispatch or for intermediate inspection during the process |
| Reading method             | Single reading, limited stacked reading                                                                    |
| Transponder types          | All UHF transponders                                                                                       |
| Antenna dimensions (LxWxH) | 310 x 260 x 30.5 mm                                                                                        |
| Interface                  | Ethernet, USB, RS-232                                                                                      |

Item no. 22488



- Consists of:
- Shielded UHF pad antenna
  - USB cable
  - Power supply

# BLUETOOTH TSL 2128P

- ▶ Application areas: Mobile data capture, intermediate control, verification, inventory
- ▶ Reading method: Single and stacked reading
- ▶ Transponders: All UHF transponders, optionally: 2D barcode capture
- ▶ Dimensions (W x H x D): 98 x 170 x 158 mm
- ▶ Weight: 445 g
- ▶ Interface: Bluetooth virtuell COM, Bluetooth HID
- ▶ Power supply: Battery-powered
- ▶ Reading range:
  - UHF: up to 9 m | Barcode: up to 90 cm

Bluetooth TSL 2128P  
2D-Bluetooth TSL 2128P

Item no. 23061  
Item no. 23058



# TRANSPONDER

7, 11, 16 mm according to DIN ISO 15693

- ▶ For fully automated identification of textiles
- ▶ With unique identification number (“UID”)
- ▶ Single, stacked, and bulk reading
- ▶ For heat-sealing (with heat-seal material) or sewing in (with woven pouches)
- ▶ Suitable for industrial ironing
- ▶ Industrial-wash resistant

For maximum mechanical stress

|                  |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  |  |  |  |  |
| Article          | HF I-Transponder Ø 7 mm                                                           | HF I-Transponder Ø 11 mm                                                          | HF I-Transponder Ø 16 mm                                                          | HF I-Transponder Ø 16 mm                                                            |
| Applications     | Residents' laundry                                                                | Residents' laundry, workwear, flat linen                                          | Workwear, mops / dusters, flat linen, bathrobes, towels etc.                      | Workwear, mops / dusters, flat linen, bathrobes, towels etc.                        |
| Reading          | Single                                                                            | Single, pile                                                                      | Single, pile, bulk, tunnel                                                        | Single, pile, bulk, tunnel                                                          |
| Thickness        | 2.0 mm                                                                            | 2.4 mm                                                                            | 2.8 mm                                                                            | 2.8 mm                                                                              |
| Reading distance | up to 16 cm                                                                       | up to 28 cm                                                                       | up to 42 cm                                                                       | up to 42 cm                                                                         |
| Laser engraved   | No                                                                                | No                                                                                | No                                                                                | Yes (customer-specific logo possible)                                               |

Item no. 64336

Item no. 62236

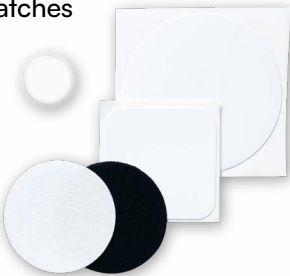
Item no. 64445

Item no. 64446

# TRANSPONDER ATTACHMENT

Patches, labels, and woven transponder pouches

## ▶ Haftex Patches



| Format         | Item no. |
|----------------|----------|
| x (Ø 25 mm)    | 61680    |
| x (Ø 50 mm)    | 58434    |
| x (35 x 35 mm) | 58034    |

Additional formats available on request

## ▶ Self-adhesive labels

- These labels allow for pre-positioning and precise alignment of the transponder underneath the label before heat-sealing.

| Quality           | Format       | Labels  | Item no.       |
|-------------------|--------------|---------|----------------|
| Fixtexx 2026      | 84 x 23.4 mm | ~ 2,000 | 56942          |
| Fixtexx 2026      | 84 x 36.1 mm | ~ 1,300 | 56941          |
| Fixtexx 2041      | 53 x 19 mm   | ~ 2,300 | 65431          |
| Roll length: 50 m |              |         |                |
| Fixtexx 2026      | 53 x 32 mm   | ~ 710   | FX2026-53x3225 |
| Fixtexx 2041      | 53 x 32 mm   | ~ 710   | FX2041-53x3225 |

Additional formats available on request



# WOVEN TRANSPONDER POUCHES



|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| Versions           | Available blank or with woven-in design, with or without transponder |
| Transponder        | Max. 16 mm                                                           |
| Material           | Polyester                                                            |
| Dimensions (W x H) | 24 x 40 mm (standard format)                                         |

Item no. 62218

Additional formats and versions available on request

# PATCH DISPENSER AND HAFTEX PATCHES



- ▶ With the patch dispenser, your transponder patches are always within reach. Self-adhesive patches enable efficient working.

| Haftex-Patches        | Format                  | Item no. |
|-----------------------|-------------------------|----------|
| 1,000 labels per roll | Rectangular, 35 x 35 mm | 58034    |
| 1,000 labels per roll | Round, Ø 50 mm          | 58434    |

Patch dispenser

Item no. 15627

# TRANSPORT CONTAINER LABELING



- ▶ For plastic transport containers
- ▶ Suitable for cleaning gates

|                    |                          |
|--------------------|--------------------------|
| Printing method    | Thermal transfer         |
| Type               | HF, ISO 15693, ICode SLI |
| Material           | White PET, blank         |
| Adhesive           | Permanent                |
| Presentation       | On roll                  |
| Dimensions (W x H) | 50 x 50 mm, single-lane  |

Item no. 63866

Additional formats and versions available on request



# HF-SYSTEM COMPACT PLUS

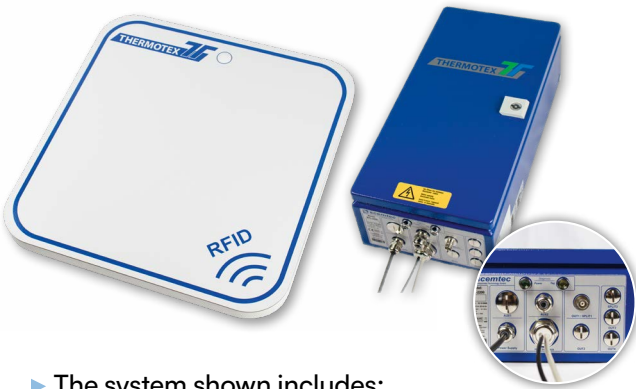


- ▶ Top surface made of antistatic material
- ▶ Specifically designed for metal tables
- ▶ Integrated LED indicates operating status

|                                            |                                                                                              |           |           |
|--------------------------------------------|----------------------------------------------------------------------------------------------|-----------|-----------|
| Application areas                          | Desk workstation for laundry sorting in laundry dispatch or for intermediate process control |           |           |
| Reading method                             | Single reading, limited stacked reading                                                      |           |           |
| Transponder size (in mm) and reading range | 0 - 7 cm                                                                                     | 0 - 12 cm | 0 - 15 cm |
| Antenna dimensions (L x W x H)             | 310 x 260 x 30.5 mm                                                                          |           |           |
| Reader dimensions                          | Integrated in antenna                                                                        |           |           |
| Interface                                  | Ethernet, USB, RS-232                                                                        |           |           |

Item no. 23320

# HF-SYSTEM LONG-RANGE TABLE



- ▶ The system shown includes:
  - HF industrial reader
  - HF antenna

|                                            |                                                                                 |           |           |
|--------------------------------------------|---------------------------------------------------------------------------------|-----------|-----------|
| Application areas                          | Resident laundry, workwear, mops / cleaning cloths, bathrobes, towels, and more |           |           |
| Reading method                             | Single and stacked reading                                                      |           |           |
| Transponder size (in mm) and reading range | 0 - 16 cm                                                                       | 0 - 28 cm | 0 - 42 cm |
| Antenna dimensions (L x W x H)             | 430 x 450 x 25 mm                                                               |           |           |
| Reader dimensions                          | 420 x 200 x 120 mm                                                              |           |           |
| Interface                                  | RS232, Ethernet, USB                                                            |           |           |

Item no. 21476

# HF-SYSTEM MID-RANGE TABLE



- ▶ The system shown includes:
  - HF reader
  - HF antenna
- ▶ Also available as an under-table system

|                                            |                                                                                      |           |           |
|--------------------------------------------|--------------------------------------------------------------------------------------|-----------|-----------|
| Application areas                          | Resident laundry, workwear, mops / cleaning cloths, bathrobes, towels, and much more |           |           |
| Reading method                             | Single and stacked reading                                                           |           |           |
| Transponder size (in mm) and reading range | 0 - 5 cm                                                                             | 0 - 15 cm | 0 - 20 cm |
| Antenna dimensions (L x W x H)             | 300 x 250 x 12 mm                                                                    |           |           |
| Reader dimensions                          | 170 x 105 x 45 mm                                                                    |           |           |
| Interface                                  | RS232, Ethernet, USB                                                                 |           |           |

Item no. 18533

# HF-SYSTEM LONG-RANGE LOOP



- ▶ The system shown includes:
  - HF reader
  - HF antenna

|                                            |                                                                                      |           |           |
|--------------------------------------------|--------------------------------------------------------------------------------------|-----------|-----------|
| Application areas                          | Resident laundry, workwear, mops / cleaning cloths, bathrobes, towels, and much more |           |           |
| Reading method                             | Single and stacked reading                                                           |           |           |
| Transponder size (in mm) and reading range | 0 - 16 cm                                                                            | 0 - 28 cm | 0 - 42 cm |
| Antenna dimensions (L x W x H)             | 430 x 450 x 23 mm                                                                    |           |           |
| Reader dimensions                          | 420 x 200 x 120 mm                                                                   |           |           |
| Interface                                  | RS232, Ethernet, USB                                                                 |           |           |

Item no. 17274

# HF-SYSTEM MID-RANGE LOOP



- ▶ The system shown includes:
  - HF reader
  - HF antenna
- ▶ Also available as an under-table system

|                                            |                                                                    |           |           |
|--------------------------------------------|--------------------------------------------------------------------|-----------|-----------|
| Application areas                          | Workwear, mops / cleaning cloths, bathrobes, towels, and much more |           |           |
| Reading method                             | Single and stacked reading                                         |           |           |
| Transponder size (in mm) and reading range | -                                                                  | 0 - 13 cm | 0 - 28 cm |
| Antenna dimensions (L x W x H)             | 430 x 450 x 23 mm                                                  |           |           |
| Reader dimensions                          | 170 x 105 x 45 mm                                                  |           |           |
| Interface                                  | RS232, Ethernet, USB                                               |           |           |

Item no. 17027

# HF-/UHF-SYSTEM COMPACT PLUS



- ▶ Top surface made of antistatic material
- ▶ Specifically designed for metal tables
- ▶ Integrated LED indicates operating status

|                                            |                                                                                              |           |           |
|--------------------------------------------|----------------------------------------------------------------------------------------------|-----------|-----------|
| Application areas                          | Desk workstation for laundry sorting in laundry dispatch or for intermediate process control |           |           |
| Reading method                             | Single reading, limited stacked reading                                                      |           |           |
| Transponder size (in mm) and reading range | 0 - 6 cm                                                                                     | 0 - 12 cm | 0 - 15 cm |
| Antenna dimensions (L x W x H)             | 310 x 260 x 30.5 mm                                                                          |           |           |
| Reader dimensions                          | Integrated into the antenna                                                                  |           |           |
| Interface                                  | Ethernet, USB, RS-232                                                                        |           |           |

Item no. 23127

# HF-SYSTEM LONG-RANGE-PANEL

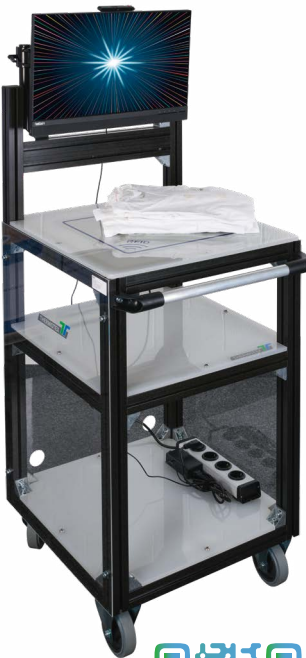
- ▶ With flexible mounting bracket
- ▶ For reading hanging garments in a conveyor system
- ▶ The system shown (1) includes:
  - HF industrial reader
  - HF antenna
- ▶ Suitable for pressing stations and folding robots (4)
- ▶ The system shown includes either:
  - Mounting bracket with 4 adjustable feet (3), or
  - Floor bracket with adjustable tilt angle (2)

|                    |                                            |
|--------------------|--------------------------------------------|
| Application areas  | Sorting systems or single reading stations |
| Multi-tag          | Compatible                                 |
| Dimensions (LxWxH) | 1,150 x 280 x 30 mm                        |
| Interface          | RS232, Ethernet, USB                       |

- 1 HF-System Long-Range-Panel
- Item no. 17275
- 2 Floor stand for panel
- Item no. 20145
- 3 Base stand for panel
- Item no. 19840
- 4 Mounting bracket for pressing station
- Item no. 21221



# HF PICKING TROLLEY



- ▶ Advantages of the picking trolley
  - Mobility and flexibility
  - Robust design with mounting options for notebooks or all-in-one touchscreen systems
  - Integration of RFID reader systems in HF, UHF, or as a hybrid solution
  - Configurable and adaptable to customer requirements (custom-built)
  - Optional: Standalone operation possible through integration of UPS units with ACD Powerack 250V / 60Ah — 300W
  - Optional: Preconfigured, fanless all-in-one touchscreen system
- ▶ The system shown includes:
  - Loop antenna
  - Industrial reader
  - 4-socket power strip
  - PC mounting bracket
  - Two fixed and swivel castors with brakes, Ø 125 mm, rubberized

Also available as UHF version and custom-built solution

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| Application areas  | At various stages of the process, mobile or stationary |
| Dimensions (LxWxH) | 600 x 600 x 1,400 mm                                   |
| Interface          | USB HID, USB Virtuell-Com, RS232, Ethernet             |

Item no. 18260

More Information:



# HF SYSTEM TUNNEL ANTENNA

With conveyor belt

- ▶ Ideal for integration into existing conveyor systems
- ▶ Reading of entire packages, bags, or laundry stacks
- ▶ Significant time savings
- ▶ 100 % reliability
- ▶ The system shown includes:
  - Tunnel antenna, conveyor with belt mat
  - Long-range reader, antenna multiplexer
  - Control unit with frequency converter
  - Adjustable belt speed up to 13 m/min

|                                    |                                                                    |
|------------------------------------|--------------------------------------------------------------------|
| Application areas                  | Workwear, mops / cleaning cloths, bathrobes, towels, and much more |
| Reading method                     | Stacked reading, bulk detection (bags, stacks, individual items)   |
| Transponder size                   | 16 mm                                                              |
| External dimensions Tunnel (LxWxH) | 800 x 550 x 550 mm                                                 |
| Tunnel opening                     | 1,904 x 710 x 1,361 mm                                             |
| Interface                          | Ethernet, optional: RS232, USB                                     |

Item no. 17858



## HF Reader Systems

Our innovative HF reader systems are built to the highest technical standards and, in combination with suitable transponders, ensure optimal laundry identification. Entire packages, bags, or laundry stacks can be read within seconds — delivering significant time savings!

## Custom-built solutions

Custom-built systems from THERMOTEX are tailored to specific processes and individual customer requirements. They are ideal for integration into existing conveyor systems and are manufactured to your exact specifications.

# INCLINE CONVEYORS

- ▶ Two systems in one: The incline conveyor is a transport belt for transferring items to a batch loading belt while simultaneously reading the laundry items.
- ▶ The laundry item, including the transponder, is read by the antenna either in a transport bag or loose as it passes through, and is then transferred to the next processing station.
- ▶ The system shown includes:
  - Belt mat conveyor with ergonomic loading funnel and side guides
  - HF long-range reading system
  - Control cabinet with operating elements



Individually tailored to customer requirements