RFID TECHNOLOGY

HF- AND UHF-TAGS | READING SYSTEMS

LAUNDRY WORKFLOW

Reading of data using **barcodes** or **RFID** during the entire washing process
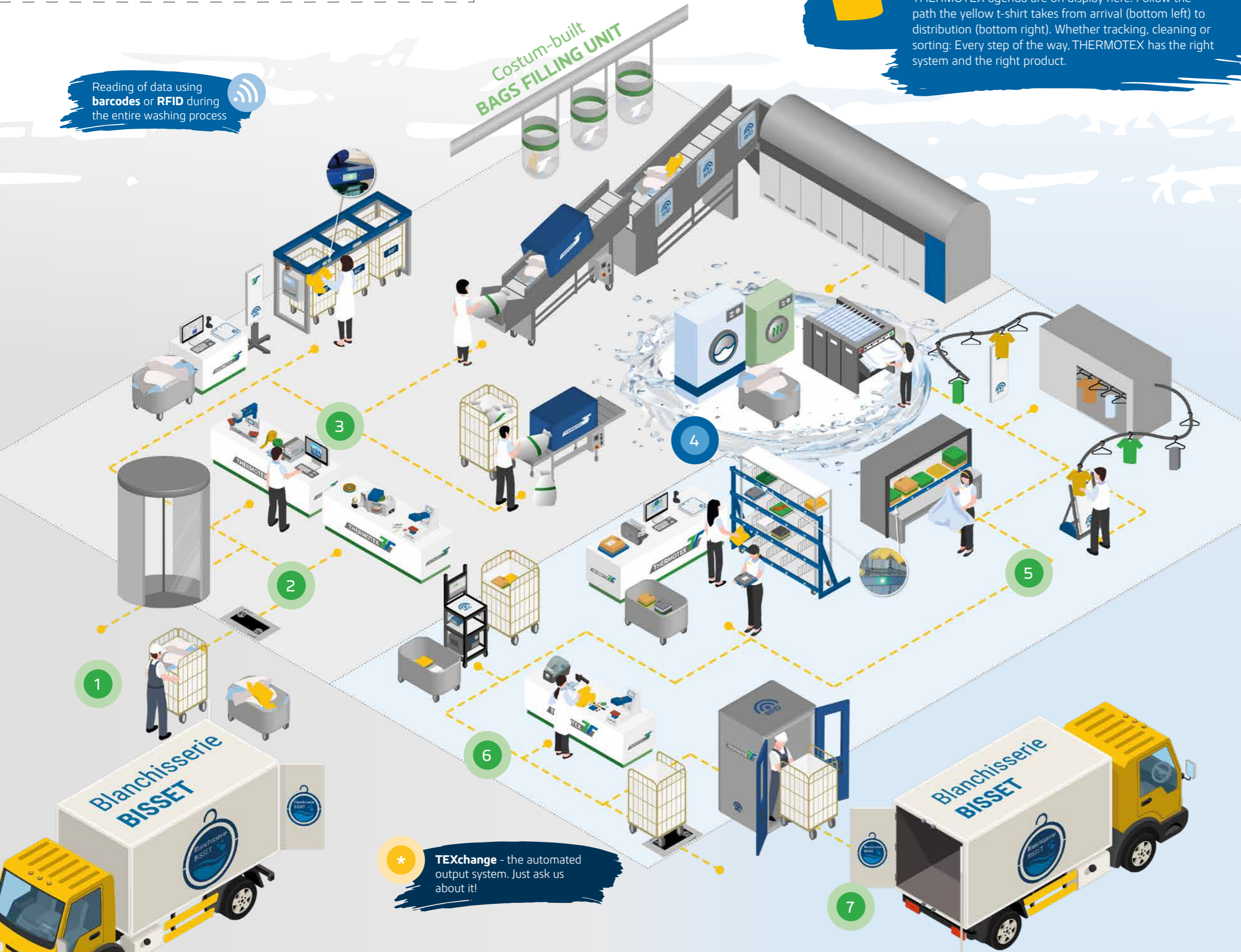
Costum-built
BAGS FILLING UNIT

A SMALL SHIRT ON A BIG TRIP

The amount of care, technology and know-how on the THERMOTEX agenda are on display here: Follow the path the yellow t-shirt takes from arrival (bottom left) to distribution (bottom right). Whether tracking, cleaning or sorting: Every step of the way, THERMOTEX has the right system and the right product.

TEXchange - the automated output system. Just ask us about it!

Blanchisserie **BISSET**

Blanchisserie **BISSET**

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1 LAUNDRY ENTRANCE

- grid container, laundry trolley
- residents' laundry bags, container hoods (inner + outer), laundry bags, laundry nets
- **TEXchange entrance**, floor antenna

2 LABELLING

- heat seal machines
- thermal transfer printing systems
- labels, emblems
- RFID technology: tags, reading systems
- software: WinTexx 4, Saturn

3 SORTING IN ENTRY

- RFID technology: HF/UHF tags
- reading systems:
  · HF tunnel antenna
  · IN-SorTexx sorting aid (with LED display) with hand-held scanner, table antenna or panel antenna
  · ascending conveyor (HF or UHF)
- software: Saturn

4 WASHING PROCESS

- laundry trolleys
- washing, drying, industrial ironing

5 SORTING IN EXIT

- RFID technology: HF/UHF tags
- reading systems:
  · panel antenna: hanging or with stand
  · Paternoster lift system
  · OUT-SorTexx sorting aid (with LED display), optionally with billing system
  · picking trolley (HF or UHF)
- software: Saturn

6 PLACEMENT AND REPAIRS

- RFID technology: HF/UHF tags, **table antenna**, hand-held scanner
- thermal transfer printing systems and supplies
- heat seal machines and heat seal materials

7 LAUNDRY EXIT

- grid container, laundry trolley
- residents' laundry bags, container hoods (inside + outside), laundry bags, laundry nets
- **TEXchange exit**, floor antenna

RFID client project:
Ascending conveyor for front loading washing machine

THE PROBLEM:
Our customer's quantity of mop covers in circulation was constantly increasing, which pushed them to their limit in terms of the required delivery quantities. Permanently re-purchasing was no longer an option!

THE SOLUTION:
Engineer Markus Bucher, technical director of the development department at THERMOTEX; explains: "Do you have problems with the loss of high-quality textile products? Then rely on RFID technology and make your laundry cycle transparent: We will be happy to help you. Our HF tunnel systems are available in different versions. Whether with a simple mat conveyor or as an ascending conveyor system with intelligent control technology, there are interesting possibilities for you to convert the existing process to your benefit."

IN USE:
In order to meet the exact requirements of this laundry, we focused on customised design. In this customer project, the tunnel reading system is able to be driven to a front loader on a mobile basis. While the tunnel reading system carries the mop covers to the washing machine, the system detects the chipped laundry to check the quantity of delivered laundry.

WASHING MACHINE

We would be delighted to advise you on your RFID project!

RFID-TECHNOLOGIE: HF
IN OVERVIEW

Tunnel antenna with conveyor belt
They are ideal for integration into already existing conveyor systems. The scanning of whole packages, bags or piles of laundry saves an enormous amount of time

Assignment made easy
The tags find their place in various textiles such as clothing, wiping mops or flat linen. Equipped like this, everything goes where it belongs

HF reading systems
The plug-in reading systems: plug in and start. These ensure, problem-free laundry sorting: The innovative reading system comprises a reader and an antenna and ensures smooth logging of laundry at the highest level

HF tags in three sizes
Small, medium or large: The HF tags are all very small (7, 11 and 16 mm), extremely robust and were specially developed for use in laundries

Accessories
Our accessories, e.g. attachments for tag or patch dispensers complete our range of HF technology products.

WE CAN ALSO DO NFC! FOR SMART APPLICATIONS

TAGS: 7, 11, 16 MM IN ACCORDANCE WITH DIN ISO 15693

- ⠿ for the fully automatic identification of textiles
- ⠿ with a unique identification number („UID")
- ⠿ contactless reading
- ⠿ reading: single, pile, bulk

- ⠿ for patching (with patches) or for sewig in (woven pockets)
- ⠿ suitable for industrial ironing
- ⠿ resistant to industrial washing

HF READING SYSTEMS

Our innovative HF reading systems are cutting-edge and ensure optimal laundry sorting thanks to the corresponding **tags.** Entire bundles, bags or piles of laundry can be read in seconds, saving much time in the process!

DIRECT MARKING AFTER THE READING PROCESS

HF I-TAGS Ø 7 MM 🟡
Art. no. 64336

Areas of application	residents' laundry
Reading	single
Thickness	2,0 mm
Reading distance	up to 16 cm
Laser engraving	no

HF I-TAGS Ø 11 MM 🟢
Art. no. 62596

Areas of application	residents' laundry, workwear, flat linen
Reading	single, pile
Thickness	2,4 mm
Reading distance	up to 28 cm
Laser engraving	yes
	customer-specific logo possible

HF I-TAGS Ø 16 MM 🔵
Art. no. 64446

Areas of application	workwear, mops / dusters, flat linen, bathrobes, towels etc.
Reading	single, pile, bulk, tunnel
Thickness	2,8 mm
Reading distance	up to 42 cm
Laser engraving	yes
	customer-specific logo possible

FOR THE HIGHEST MECHANICAL REQUIREMENTS

HF O-TAGS Ø 16 MM 🔵
Art. no. 65112

Areas of application	workwear, mops / dusters, flat linen, bathrobes, towels etc.
Reading	single, pile, bulk, tunnel
Thickness	3,2 mm
Reading distance	up to 42 cm
Format	lenticular (rounded, soft edges)
Laser engraving	yes
	customer-specific logo possible

HF SYSTEM TUNNEL ANTENNA
WITH CONVEYOR BELT

- ⠿ ideal for integration into existing conveyor systems
- ⠿ reading of whole bundles, bags or piles of laundry
- ⠿ great saving of time
- ⠿ 100 % reliability

The pictured system includes:
- ⠿ tunnel antenna
- ⠿ mat belt conveyor
- ⠿ Long-Range reader
- ⠿ antenna multiplexer
- ⠿ control unit with frequency converter
- ⠿ belt speed adjustable up to 13 m / min.

Areas of application	workwear, mops / dusters, bathrobes, towels etc.
Reading	pile, recording contents of whole bags, piles of laundry and individual items
Tag dim.	16 mm
Tunnel external dimensions (L x W x H)	800 x 550 x 550 mm
External dimensions (L x W x H)	1.904 x 710 x 1.361 mm
Tunnel opening (L x W x H)	430 x 430 mm
Interfaces	Ethernet, optional: RS232, USB

Art. no. 17858

HF SYSTEM MID-RANGE COMPACT PLUS

Areas of application	table workstation for sorting laundry in the outgoing area or for intermediate inspection		
Reading	single, limited piles		
Tag dim. (in mm) and reading distance	7 0–7 cm	11 0–12 cm	16 0–15 cm
Antenna dim. (L x W x H)	310 x 260 x 30,5 mm		
Decoder dim.	integrated into antenna		
Interfaces	Ethernet, USB Virtuell COM + HID, RS-232		

⬚ surface made of antistatic material
⬚ especially for metal tables (shielded)
⬚ integrated LED indicates operating states

Art. no. 23320

HF SYSTEM MID-RANGE TABLE

Areas of application	residents' laundry, workwear, mops / dusters, bathrobes, towels etc.		
Reading	single, pile		
Tag dim. (in mm) and reading distance	7 0–5 cm	11 0–15 cm	16 0–20 cm
Antenna dim. (L x W x H)	300 x 250 x 12 mm		
Decoder dim.	170 x 105 x 45 mm		
Interfaces	RS232, Ethernet, USB		

The pictured system includes:
⬚ HF decoder
⬚ HF antenna

⬚ available as under-sink system

Art. no. 18533

HF SYSTEM MID-RANGE LOOP

Areas of application	workwear, mops / dusters, bathrobes, towels etc.		
Reading	single, pile		
Tag dim. (in mm) and reading distance	7 –	11 0–13 cm	16 0–28 cm
Antenna dim. (L x W x H)	430 x 450 x 23 mm		
Decoder dim.	170 x 105 x 45 mm		
Interfaces	RS232, Ethernet, USB		

The pictured system includes:
⬚ HF decoder
⬚ HF antenna

⬚ also available as a table system

Art. no. 17027

HF SYSTEM LONG-RANGE TABLE

Areas of application	residents' laundry, workwear, mops / dusters, bathrobes, towels etc.		
Reading	single, pile		
Tag dim. (in mm) and reading distance	7 0–16 cm	11 0–28 cm	16 0–42 cm
Antenna dim. (L x W x H)	430 x 450 x 25 mm		
Decoder dim.	420 x 200 x 120 mm		
Interfaces	RS232, Ethernet, USB		

The pictured system includes:
⬚ HF industrial decoder
⬚ HF antenna

⬚ available as under-sink system

Art. no. 21476

HF SYSTEM LONG-RANGE LOOP

Areas of application	residents' laundry, workwear, mops / dusters, bathrobes, towels etc.		
Reading	single, pile		
Tag dim. (in mm) and reading distance	7 0–16 cm	11 0–28 cm	16 0–42 cm
Antenna dim. (L x W x H)	430 x 450 x 23 mm		
Decoder dim.	420 x 200 x 120 mm		
Interfaces	RS232, Ethernet, USB		

The pictured system includes:
⬚ HF industrial decoder
⬚ HF antenna

⬚ also available as a table system

Art. no. 17274

HF / UHF SYSTEM MID-RANGE COMPACT

Areas of application	table workstation for sorting laundry in the outgoing area or for intermediate inspection		
Reading	single, limited pile		
Tag dim. (in mm) and reading distance	7 0–6 cm	11 0–12 cm	16 0–15 cm
Antenna dim. (L x W x H)	310 x 260 x 30,5 mm		
Decoder dim.	integrated into antenna		
Interfaces	Ethernet, USB Virtuell COM + HID, RS-232		

⬚ surface made of antistatic material
⬚ especially for metal tables (shielded)
⬚ integrated LED indicates operating states

Art. No. 23127

HF HAND-HELD SCANNING SYSTEM TYPE 21

Areas of application	controlled reading of individual items or on hangers
Reading	single
Tag dim. (in mm) and reading distance	**7** contact reading **11** 0–5cm **16** 0–10cm
Interfaces	USB, Bluetooth

- optional: Ethernet and RS232 possible in conjunction with a base station
- control info via display screen

Art. no. 19333

Bluetooth base station
(#22078 or #23319)

ALSO AVAILABLE WITH HOLDER

HF-SYSTEM LONG-RANGE-PANEL

Areas of application	sorting facilities, individual reading stations
Multi-tag	compatible
Dimensions (LxWxH)	1,150 x 280 x 30mm
Interfaces	RS232, Ethernet, USB

- for reading of hanging items in a conveyor system

The pictured system includes:
- HF industrial reader
- HF antenna

With flexible holder   Art. no. 17275

STAND FOR LONG-RANGE-PANEL

- for ironing stations and folding robots
- the pictured system includes either:
  · holder with 4 feet **or**
  · floor holder with adjustable angle

1. Stand for panel   Art. no. 19840
2. Floor holder for Panel   Art. no. 20145
3. Holder for ironing station   Art. no. 21221

1

2

RFID PICKING TROLLEY FOR HF AND UHF
THE MOBILE AND STATIONARY SOLUTION

Areas of application	within different steps of the process, mobile or stationary
Dim. (L x W x H)	600 x 600 x 1,400mm
Interfaces	USB HID, USB Virtuell-Com, RS232, Ethernet

CUSTOMISED OPTION ALSO POSSIBLE

ADVANTAGES OF THE PICKING TROLLEY

- mobility and flexibility
- robust construction with mounting option for notebooks or all-in-one touch screen systems
- integration of RFID reading systems in HF, UHF or as a combined solution
- configurable and customisable to customer requirements (customised construction)
- optional: power-independent operation is possible by way of integration of UPS equipment with ACD power rack 250V / 60Ah - 300W
- optional: a pre-configured, ventilation free All-In-One touch screen system

RFID HF picking trolley   Art. no. 18260

MORE INFO

The pictured system includes:
- Loop antenna
- industrial decoder
- socket strip; fourfold
- PC support
- 2 fixed and 2 steering wheels with brakes, Ø125mm rubberized

ACCESSORIES
ATTACHMENTS FOR TAGS – PATCHES, LABELS AND WOVEN TAG POCKETS

Patches allow the tags to be attached easily using a heat seal machine.

PATCHES

- patch standard quality P0703 (100 % polyester), white

Other formats on request

Dimensions	Art. no.
Format Z (Ø 35mm)	PA0703Z
Format W (Ø 50mm)	PA0703W
Format C (35 x 35mm)	PA0703C

LABELS

- self-adhesive labels
- Pre-fixing allows the optimum alignment of the tag under the label before heat-sealing

Other formats on request

Quality	Dimensions	Labels	Art. no.
Fixtexx 2026	84 x 23,4mm	ca. 2.000	56942
Fixtexx 2026	84 x 36,1mm	ca. 1.300	56941
Fixtexx 2041	53 x 19mm	ca. 2.300	65431
Roll length: 50 m			
Fixtexx 2026	53 x 32mm	ca. 710	FX2026-53x3225
Fixtexx 2041	53 x 32mm	ca. 710	FX2041-53x3225
Roll length: 25 m			

ACCESSORIES
ATTACHMENTS FOR TAGS – PATCHES, LABELS AND WOVEN TAG POCKETS

WOVEN TAG POCKETS

Variants	plain or with woven-in logo, available with or without tag already inserted
Tag	max. 16 mm
Material	polyester
Dimensions (W x H)	24 x 40 mm (standard format)

Other formats and variants on request   Art. no. 62218

PATCH DISPENSER AND HAFTEX PATCHES

The patch dispenser keeps your tag patches always ready to hand. The self-adhesive patches permit highly efficient work.

Haftex patches	Format	Art. no.
1,000 labels per roll	rectangular, 35 x 35 mm	58034
1,000 labels per roll	round, Ø 50 mm	58434

Patch dispenser   Art. no. 15627

CONTAINER MARKING

Printing type	thermal transfer
Type	HF, ISO 15693, ICode SLI
Material	PET white, plain
Adhesive	permanently adhesive
Packaging	on a roll
Dimensions (W x H)	50 x 50 mm, 1 column

for plastic transport containers

Other formats and variants on request   Art. no. 63866

SUITABLE FOR CLEANING SLUICES

CUSTOM-BUILTS

Custom-builts by THERMOTEX are tailored to the individual processes and requirements of the customer. They are ideal for integration into existing conveyor systems. Custom-builts according to your requirements.

ASCENDING CONVEYORS

- two systems in one: the ascending conveyor is a transportation belt for delivery to a loading system with the simultaneous logging of the laundry items
- the laundry item incl. tag is read by the antenna in the transport bag or separately when passing through and transferred to the next processing station
- the pictured system includes:
  · Mat belt conveyor with ergonomic hopper and sideguide
  · HF long-range reader
  · Switch cabinet with operating elements

INDIVIDUALLY TUNED TO CUSTOMER REQUIREMENTS!

ASCENDING CONVEYOR FOR FRONT LOADING WASHING MACHINE

Engineer Markus Bucher, technical director of the development department at THERMOTEX; explains: "Do you have **problems with the loss** of high-quality textile products? Then rely on **RFID technology** and make your **laundry cycle** transparent: We will be happy to help you. Our **HF tunnel systems** are available in different versions. Whether with a simple **mat belt conveyor** or as an **ascending conveyor system** with intelligent control technology, there are interesting possibilities for you to convert the existing process to **your benefit**. In order to meet your exact requirements, we are also happy to implement special designs."

MORE INFO

RFID client project:
Iron-on station

THE PROBLEM:
The chipped laundry items should be detected quickly and accurately in the ironing-on process. This is the only way to ensure that the work process is carried out efficiently.

THE SOLUTION:
Our client now relies on the hanging UHF panel antenna in combination with the perfectly matched UHF tags. At the iron-on station, the antenna reads the chipped textiles and passes them on to the sorting system with a specific destination.

The antenna offers a high degree of flexibility in mounting and alignment in order to optimally adjust the application together with the client and his staff. The savings in time and costs are quickly noticed!

IN USE:
The UHF panel antenna can be attached to the existing iron-on modules according to the client's wishes. Then, thanks to the various models of antennas, the system adapts flexibly to each customer, and not the customer to the system.

We would be delighted to advise you on your RFID project!

CONTAINER AND BULK LOGGING

The innovative UHF reading systems from THERMOTEX comprise a perfect combinaison of reader and antenna. Together with the corresponding tags, they ensure optimal laundry logging and tracking. This way, they contribute to the optimisation of the processes, increase your savings in terms of costs and time, and thus improve the efficiency of your company. The systems can be integrated into already existing IT systems and are also available as customer-specific solutions. The system offers a significant advantage for bulk logging where a large quantity of chipped textiles can be identified simultaneously.

Tags for textiles

UHF tags
Due to their long range, the UHF tags are particularly suitable for container and bulk logging as well as for coverage of a room or defined area

Tags for attachment to the containers

UHF reading systems
The innovative UHF reading systems from THERMOTEX are adjusted to technically and optimally meet the requirements of the various applications. Together with the corresponding tags, they ensure the identification of the textiles and optimal laundry sorting throughout the entire laundry cycle.
We allow you precise detection rates for your UHF applications!
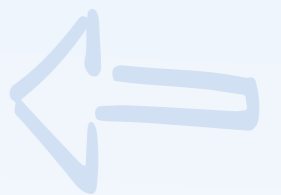
UHF TAG

EMBROIDERED TAGS

The tags are made of tried and tested materials and are suitable for heat sealing or sewing in. They are available in various sizes and variants and are suitable for standard or wet washing. THERMOTEX programms and manages the number ranges, thus providing the highest security for your laundry process.

F10 TAG

Dimensions: 58 x 18,5 mm
Thickness: 0,5 mm, < 2,5 mm in chip area

OUR UHF EMBROIDERED TAG IS RESISTANT TO INDUSTRIAL WASHING PROCESSES AND INDUSTRIAL IRONER!

Areas of application	reading of workwear, flat textiles and accessory textiles e.g. in in-coming and out-going areas or during the inventory of cupboards/rooms
Reading	bulk reading, e.g. in grid container
Reading distance	up to 6 m
Use with	UHF Box, Gate, Shelf, Fix Sehlf, hand-held readers, Universal, Compact
Application	sewing in / heat sealing

F10 TAGS ON ROLLS

- all F10 variants are available on a roll
- particularly suitable for garment manufacturers
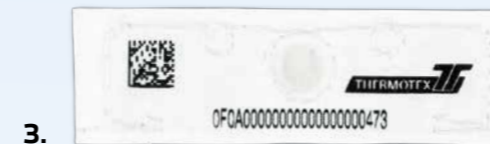- allows the automatic merging of tag and flat laundry items, for example

OVERVIEW OF F10 VARIANTS

1.
UNPRINTED
plain, without optical recognition
Art. no. 67631

2.
WITH EPC NUMBER
EPC number permanently visually readable. Data matrix code readable with every smartphone
Art. no. 67582

3.
WITH LOGO AND EPC NUMBER
EPC number permanently visually readable. Data matrix code readable with every smartphone. Customer-specific logo possible to identify the property
Art. no. 67966
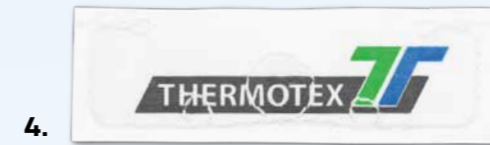
4.
WITH LOGO
with multi-coloured, customer-specific logo to identify the property
Art. no. 67632

5.
WITH BARCODE
The barcode number can always be read optically and is coupled with the EPC number. Barcode readable with every smartphone
Art. no. 67967

All tags on this page are shown in their original size.

UHF TAG

OUR UHF EMBROIDERED TAG IS RESISTANT TO INDUSTRIAL WASHING PROCESSES AND INDUSTRIAL IRONER!

OEKO-TEX ®
CONFIDENCE IN TEXTILES
STANDARD 100
04.0.9467 HOHENSTEIN HTTI
Tested for harmful substances.
www.oeko-tex.com/standard100

F11 TAG

6.

OTT30

Art. no. 68108

Dimensions	70 x 11mm · thickness: 0,5mm, 2,5mm in chip area
Areas of application	reading of workwear, flat textiles and contract textiles
Reading	bulk reading, e.g. in grid container
Reading distance	up to 6m
Use with	UHF Box, Gate, Shelf, hand-held readers, Universal, Table Plus
Application	for sewing into the seam of a textile item

F12 TAG

7.

Art. no 68163

OEKO-TEX ®
CONFIDENCE IN TEXTILES
STANDARD 100
04.0.9467 HOHENSTEIN HTTI
Tested for harmful substances.
www.oeko-tex.com/standard100

Dimensions	36 x 11mm · thickness: 0,5mm, 2,5mm in chip area
Areas of application	reading of residents' laundry
Reading	single, pile
Reading distance	up to 1m
Use with	Shelf, Fix Shelf, Hand-held reader, Compact
Application	for patching with an identification label, which can be customised with an individual name or logo. We recommand to use Fixtexx labels in the dimension 41x14,4mm or 53x19mm.

F10 with EPC number

F10 with logo and EPC number

F11 in towel

UHF TAGS FOR THE MARKING OF TRANSPORT SYSTEMS
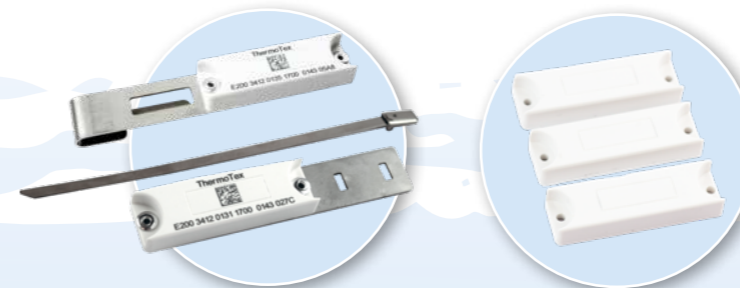
C2
with barcode and bracket

C2
blank
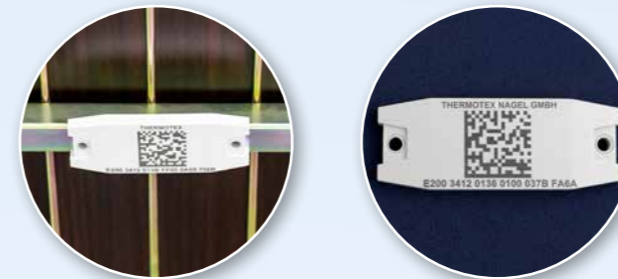
C3
on the underside of the grid trolley

C3
with laser inscription

UHF TAGS FOR MOUNTING

- robust, durable tag
- waterproof

UHF CONTAINER TAG C2

- dimensions (L x W x H): 52 x 16 x 8.5mm
- max. writing/reading distance: 2m
- for screwing on to containers

C2	Art. no 65690
C2 with laser inscription and bracket	Art. no 67784
C2 with laser inscription and bracket for cable tie mounting	Art. no 67809

UHF CONTAINER TAG C3

- dimensions (L x W x H): 95 x 35 x 8 ± 0,4 mm
- max. writing/reading distance: 5m
- mounting on metal by means of rivets, screws or industrial adhesive

C3	Art. no 68872

UHF SELF-ADHESIVE LABELS

- suitable for thermal transfer printing
- adhesive: permanently adhesive
- material: PET white, plain
- packaging: on rolls

Art. no. 66982

UHF Haftklebeetikett
Größe: 54 x 34 mm
EPC-Nr

ACCESSORIES: WOVEN TAG POCKETS

- in different pocket sizes
- quality: taffeta
- tube woven
- cut in hot condition
- for F10 & F11 tags
- for sewing in

INDIVIDUAL WEAVING POSSIBLE

For F10 tag
Art. no. 67992

For F11 tag
Art. no. 69506

All tags on this page are shown in their original size.

UHF READING SYSTEMS

UHF-SYSTEM LONG-RANGE UNIVERSAL
AND INDUSTRY SOLUTION UNIVERSAL I

REGISTER OF WHOLE ROOMS

Stationary registering of chipped textiles and items is yesterday's news. Use our long-range universal UHF system to identify entire spaces. Depending on the application, in industrial use for example, up to 8 antennas can be connected to the control cabinet.

Areas of application	flexible deployable in the laundry process
Reading	single, pile, bulk reading
Tag	all UHF tags
Antenna dim. (L x W x H)	130 x 130 x 39 mm
Interfaces	Ethernet, USB, RS232

☐ up to 4 antennas can be connected in the standard system
☐ offers the possibility of room detection
☐ special industry solution: 4 - 8 external SAT antennas (depending on application) with the Universal i switch cabinet
☐ standard system consisting of:
 · UHF long-range decoder
 · 1 - 4 external SAT antennas (depending on application)
☐ industrial system consisting of:
 · UHF long-range decoder integrated in control box
 · 4 - 8 external SAT antennas (depending on application)

Universal i
Control box for industrial use with up to 8 antennas
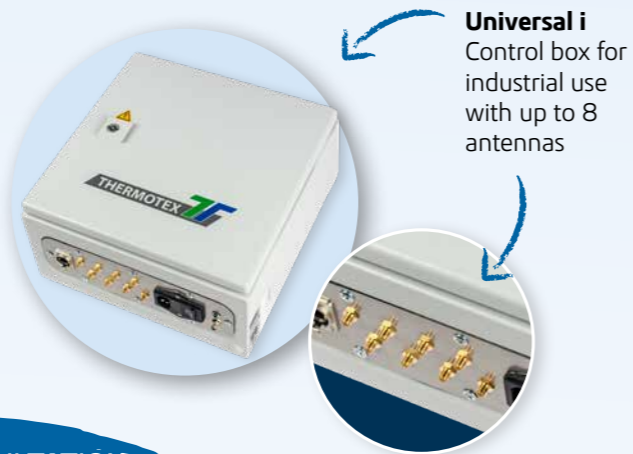
MAKE A CONSULTATION APPOINTMENT NOW!
info@thermo-tex.de
Tel.: +49 781 9616-0

UHF system long-range universal 1 – 4

Universal 1	Art. no. 18546
Universal 2	Art. no. 21168
Universal 3	Art. no. 21169
Universal 4	Art. no. 21170

UHF system long-range universal i 4 – 8

Universal i 4	Art. no. 22312
Universal i 5	Art. no. 22308
Universal i 6	Art. no. 22309
Universal i 7	Art. no. 22311
Universal i 8	Art. no. 22310

UHF SYSTEM SHORT RANGE COMPACT
TABLE WORK STATION FOR LAUNDRY SORTING IN OUT-GOING AREA

Application	table work station in laundries, hospitals and nursing homes
Reading	single and conditional pile reading
Tag use	all UHF tags
Antenna dim. (L x W x H)	376 x 276 x 26,8 mm
Interfaces	USB HID

☐ consists of:
 · Shielded UHF pad antenna
 · USB cable
 · power adapter

UHF system short range compact   Art. no. 23049

RFID PICKING TROLLEY FOR HF AND UHF
THE MOBILE AND STATIONARY SOLUTION

Application	within different steps of the process, mobile or stationary
Dim. (L x W x H)	600 x 600 x 1,400 mm
Interfaces	USB HID, USB Virtuell-Com, RS232, Ethernet

The pictured system includes:
☐ Loop antenna
☐ industrial decoder
☐ socket strip; fourfold
☐ PC support
☐ 2 fixed and 2 steering wheels with brake, Ø125 mm rubberized

RFID UHF picking trolley   Art. no. 20488

## UHF-SYSTEM LONG-RANGE PANEL
FOR SORTING SYSTEMS

Registration of hanging products

Application	for reading of hanging items in a conveyor system
Reading	single and bulk reading
Tag use	all UHF tags
Antenna dim. (L x W x H)	1,120 x 8 x 600 mm
Interfaces	Ethernet, USB, RS232

☐ consists of:
 · UHF long range reader
 · UHF panel antenna
 · flexible holder

UHF system long-range panel   Art. no. 22776

MORE INFO
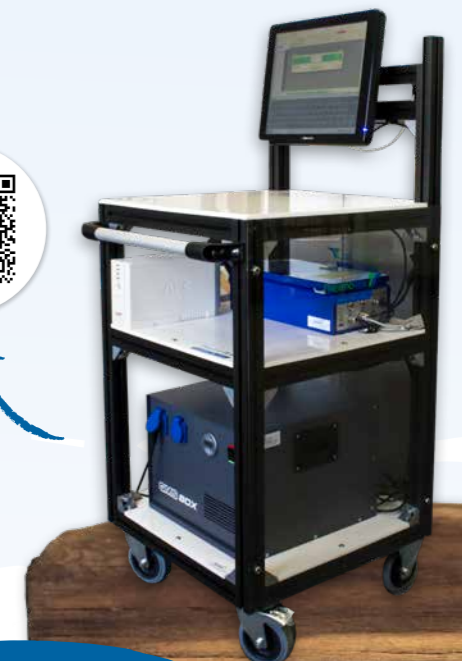
UHF SYSTEM SHELF
THE FLEXIBLE SOLUTION

With our shelf antenna, no need remains unfulfilled. Whether in the standard system or as a special construction: you will be satisfied!

Application	table workstation in the laundry process
Reading	single, pile
Tag	all UHF tags
Antenna dim. (L x W x H)	400 x 400 x 30 mm
Interfaces	USB, optional: Ethernet, RS232

UHF system Shelf — Art. no. 22276

ARRANGE A CONSULTANCY APPOINTMENT STRAIGHT AWAY: TEL.: +49 781 9616-0

UHF SYSTEM FIX SHELF

Application	flexibly deployable in the laundry process
Reading	single, pile
Tag	all UHF tags
Antenna dim. (L x W x H)	340 x 330 x 20 mm
Interfaces	USB, optional: Ethernet, RS232

UHF system Fix Shelf — Art. no. 21689

UHF CUSTOM-BUILTS
UHF ASCENDING CONVEYOR FOR EXAMPLE

The ascending conveyor is a transportation belt for conduction to a loading system with simultaneous logging of laundry items. The laundry item incl. tag is read by the antenna separately when passing through and transferred to the next processing station

optional:
Light sensor barrier
for automatic start
of the conveyor belt
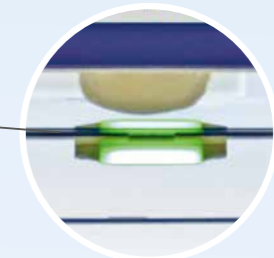
UHF ASCENDING CONVEYOR WITH FIX SHELF ANTENNA

UHF GATE
SUITABLE FOR BULK READING

- for bulk logging of various types of laundry in grid trolleys (e.g. mops, bathrobes, door mats, flat textiles, work clothes, contract textiles)
- avoids losses, therefore cost savings
- for logging and tracking grid containers as well as transport equipment
- can also be applied to HF and LF technology

control light for reading status
green = „counting process" completed

General data
- area of application: container reading in in-coming area (with limitation in out-going area)
- tag: all UHF tags
- reading: bulk reading
- interfaces: Ethernet, USB, RS 232
- fast reading technology with intelligent antenna lighting ensures time-optimised logging
- High container volume thanks to intelligent lighting display
- suitable for europallets

Technical data
- external dim. (W x H x D): 1,500 x 2,260 x 1,900 mm
- inner dim. (W x H x D) 1,033 x 1,986 x 1,800 mm

FOR READING BY PASSING THROUGH

UHF Gate — Art. no. 21587

UHF BOX

With touch display and emergency off

With coloured light signal

With door handle inside of the lock

UHF BOX

The UHF Box is available with one or two pairs of doors. The tagged laundry will be logged efficiently and error-free read. The doors lock during the reading process. They can be opened again, as soon as all textiles have been logged.

Are you a fan of easy solutions for optimal work processes? Then the UHF Box variant with self-opening and closing doors is perfect.

UHF BOX VARIANTS

UHF Box
suitable for grid containers

- external dim. (W x D x H): 1,500 x 1,000 x 2,260 mm
- inner dim. (W x D x H): 1,033 x 900 x 1,986 mm

UHF Box with one door pair   Art. no. 21595
UHF Box with two door pairs   Art. no. 21832

UHF Box L
suitable for euro-pallets

- external dim. (W x D x H): 1,500 x 1,500 x 2,260 mm
- inner dim. (W x D x H): 1,033 x 1,400 x 1,986 mm

UHF Box with one door pair   Art. no. 21000
UHF Box with two door pairs   Art. no. 21822

UHF Box XL
suitable for euro-pallets incl. pallet truck

- external dim. (W x D x H): 1,500 x 1,900 x 2,260 mm
- inner dim. (W x D x H): 1,033 x 1,800 x 1,986 mm

UHF Box with one door pair   Art. no. 21833
UHF Box with two door pairs   Art. no. 21834

General data

- areas of application: logging of textiles on grid containers in incoming / outgoing areas
- tag: F10, F11, F20 F21
- reading: bulk reading
- fast decoder control technology with intelligent antenna illumination allows time-optimised detection
- interfaces: Ethernet, USB, RS 232
- **optional:**
  with automatic door drive
  with glass insert

UHF LOCK

- UHF lock for targeted control of the flow of goods
- field of application: detection of textiles in incoming / outgoing areas in lock operation

UHF lock

Size L
- external dim. (W x D x H): 1.500 x 1.620 x 2.260 mm
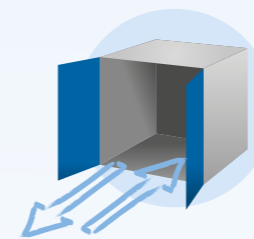- inner dim. (W x D x H): 1.033 x 1.400 x 1.986 mm
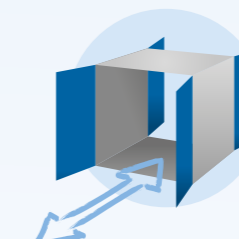
Art. no. 23030

Size L+
- external dim. (W x D x H): 1.500 x 1.620 x 2.360 mm
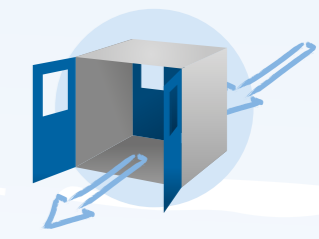- inner dim. (W x D x H): 1.033 x 1.400 x 2.086 mm

Art. no. 22764

Height-adjustable on request

UHF Box with one door pair
for placing at a wall
The UHF-Box can be operated from one side

UHF Box with two door pairs
to roll through for a better workflow
The UHF-Box can be operated from both sides

UHF Personnel lock
for the collection of Employee clothing
The UHF-Box must be operated from both sides

UHF READING SYSTEMS

UHF / HF HAND-HELD READING SYSTEM TYPE 102

- ⬚ areas of application: intermediate checks and
  verification of single elements
- ⬚ reading: single
- ⬚ tag use: all UHF tags
- ⬚ interfaces: USB HID

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TYP 102   Art. no. 18862

BLUETOOTH TSL 1128

- ⬚ areas of application: mobile reading, intermediate
  checks and verification, inventory
- ⬚ reading: single, piles
- ⬚ tag use: all UHF tags
- ⬚ dimensions (L x W x H): 77 x 169 x 160 mm
- ⬚ weight: 380 g
- ⬚ interfaces: Bluetooth, Bluetooth HID
- ⬚ in battery mode

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Bluetooth TSL 1128   Art. no. 20757

BLUETOOTH TSL 2128P

- ⬚ areas of application: mobile reading, intermediate checks
  and verification, inventory
- ⬚ reading: single, piles
- ⬚ reading distance: UHF: up to 9 m | Barcode: up to 90 cm
- ⬚ tag use: F10, F11, F12
  optional: 2D barcode reading
- ⬚ dimensions (W x H x T): 98 x 170 x 158 mm
- ⬚ weight: 445 g
- ⬚ interfaces: Bluetooth virtuell COM,
  Bluetooth HID
- ⬚ in battery mode

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Bluetooth TSL 2128P   Art. no. 23061
2D-Bluetooth TSL 2128P   Art. no. 23058

THERMOTAG

THE IN-HOUSE
DEVELOPED APP

The app for quick and simple data entry. Connect
your smartphone to your UHF handheld reader
and you're ready to go. The following functions are
available to you with the Pro version:

- ⬚ Alientag checker
- ⬚ Tag reader
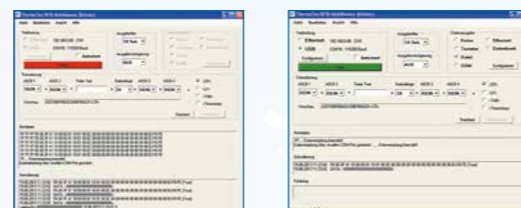- ⬚ UHF tagfinder
- ⬚ Barcode reader

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THERMOTAG   Art. no. 23112

GET IT ON
Google Play

RFID MIDDLEWARE

- ⬚ flexible interface for your RFID reading systems
- ⬚ simple conversion of the data from RFID
  reading systems

Middleware   Art. no. 19490

ARRANGE A CONSULTANCY
APPOINTMENT STRAIGHT AWAY:
E-mail: info@thermo-tex.de
Phone: +49 781 9616-0

**We're looking forward
to your call!**

THERMOTEX NAGEL GmbH
Phone   +49 781 9616-0
Fax   +49 781 9616-50
Schutterstraße 14
77746 Schutterwald / D
www.thermo-tex.co.uk
facebook.com/thermotexnagel

THERMOTEX EUROPE AG
Phone   +41 61 7519-100
Fax   +41 61 7519-101
Langenhagstraße 13
4147 Aesch / CH
www.thermo-tex.ch

FY-020 GB #65707V(5)